

TOAD COMPUTERS

Spring & Summer 1992

Atari Computers! Inside Cover!

All Kinds Of Software & Stuff!

Articles, Tips, FUN and Low Prices!



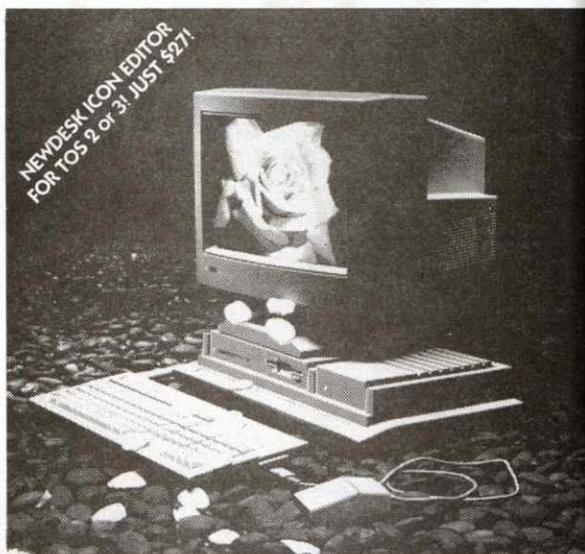
Atari TT030 & Mega STE

(800) 448-8623 Orders

The Atari Mega STE

► The **Atari Mega STE** computer is the next step for the ST power user because the Mega STE combines many of the most popular upgrades for ST machines. Its 16MHz processor means added processing power and speed. The built-in VME card slot means that you can expand your computer to use expanded video capabilities and more. An Appletalk-compatible LAN connector connects you to a wide array of printers and allows networking to other computers (with appropriate software). A **built-in hard disk** eliminates the need for bulky, space-hungry boxes. The Mega STE is truly the all-in-one ST computer for the nineties. Whether it's graphics, word processing, desktop publishing, gaming, or programming you use your ST for, the Mega STE will increase your computer enjoyment and clean up your desktop. Check the impressive list of features!

- 16MHz 68000 with Cache
- 68881 Coprocessor Socket
- New GEM Desktop Includes Many Extra Features
- Built In MIDI Ports
- Supports All ST Resolutions
- VME Card Slot for Eurocard Standard Cards
- Built-In Hard Disk Optional
- Built-In 1.44MB Floppy Drive
- Appletalk RS422 LAN Support
- SIMM Expandable to 4MB RAM
- Operating System on ROM
- Externally Genlockable for Video Production with Graphics
- BLITTER Graphics Coprocessor
- Detached Keyboard & Mouse
- Modem, Printer, Joystick, Audio, Mouse, DMA, Cartridge, RF Mod, and Floppy Disk Drive Ports Included Standard
- Three RS232 Serial Ports
- 4096 Color Palette
- Hardware Horizontal & Vertical Scrolling Capabilities
- Hardware DMA Stereo Sound
- Programmable Sound Generator
- Monitor Sits On CPU
- Easy Access to User Upgradeable Components
- See Our Great Mega & Monitor Deals on Page 4!

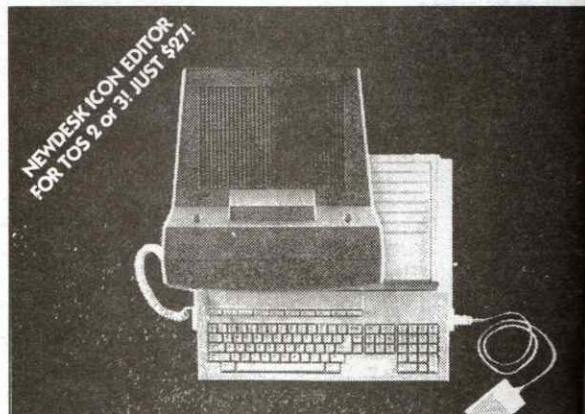


Here, the Mega STE is running a popular paint program in which anything on-screen becomes real when you press F10. (Just kidding.)

• Mega STE 1MB Machine, No Hard Disk	\$699
• Mega STE 2MB Machine, No Hard Disk	\$749
• Mega STE 4MB Machine, No Hard Disk	\$839
• For Machine With 50MB Hard Disk, Add	\$250
• For Machine With 130MB Hard Disk, Add	\$350
• For Machine With 240MB Hard Disk Add	\$650
• For Installed 68881 Math Coprocessor Add	\$99
• Extended Two Year Limited Warranty	\$79

The Atari TT030

► The **Atari TT030 Graphics Workstation** is a state of the art computer. Sporting a Motorola 68030 running at 32MHz, the TT030 competes very favorably with such machines as the Macintosh IIfx and other workstation-type computers. Keeping all of the standard features of the **Mega STE** (like a VME card slot, 4096 color palette, digitized sound capability, and the redesigned desktop interface), the TT030 also uses two types of RAM: **ST RAM** and **TT RAM**. Two, four, or ten megabytes of ST RAM allow for compatibility with existing software and hardware, and also are used for video. ST RAM also supports the TT030's full array of DMA functions, which include hard drive access, laser printing, and sound – functions the Macintosh still doesn't handle. Up to 16MB of TT RAM are what allow the TT030 to move at its fastest. TT RAM uses the 68030's *burst mode* RAM access, which is a high-speed, true 32-bit addressing mode. So, not only is the processor running four times faster than a standard ST is, it's able to retrieve twice times as much data per machine cycle. This means that you will notice a speed increase of **up to sixteen times faster**, at the very least. With the included 68882 math coprocessor, speed increases up to several hundred times faster are possible, depending on your application. Desktop publishing, spreadsheets, databases, and programming tasks will all be accelerated greatly. The TT030 is recommended for ST users who seek increased speed with current applications. Since the release of Atari's **Unix System V** development kit, the TT030 will become a viable Unix platform in 1992. The TT030 is compatible with the Spectre GCR Mac emulator, so thousands of Macintosh compatible products may be used at very high speeds! A 386 emulator will be available shortly. Please call for more information regarding this workhorse machine – available now from your 32-bit headquarters, **Toad Computers!**



The Atari TT030 supports six video resolutions: the three ST resolutions, plus a 320x256 color mode, a 640x480 16 color mode and a 1280x960 monochrome mode.

• TT030 2MB Machine, 50MB Hard Disk	In Stock
• TT 2MB ST RAM Board	\$299
• TT 8MB ST RAM Board	\$799
• TT 4MB TT FAST RAM Board	\$549
• TT 16MB TT FAST RAM Board	\$1599
• Toad's 32MB FAST SIMM Bd. (Unpopulated)	\$399
• ATARI PTC1426 Color Monitor	\$479
• ATARI TTM194 Monochrome Monitor	\$999
• For Machine Without Hard Disk, Subtract	\$100
• For Machine With 130MB Hard Disk, Add	\$250
• For Machine With 80MB Hard Disk, Add	\$159
• For Machine With 340MB Hard Disk, Add	\$999
• Extended Two Year Limited Warranty	\$89

The Atari STE Tribe

Killer
Performance!

At these prices, the **Atari STE Computers** might as well be free! Name one other computer you can buy with **4MB** in it for **under \$600** and we'll drink napalm. The **STE** is an enhancement of the **ST Computer** that made **Atari** great! It has all the features of the standard **1040ST** — built in double sided disk drive, built in keyboard, included mouse, MIDI ports, and more. But they've gone and upped the ante in the **STE**! The **STE** sports an impressive "standard features" list, including:

- A 4096 Color Palette
- 16 Levels of Same Color On-Screen at Once!
- 8-Bit Pulse Code Modulated Stereo Digital Sound
- SIMM Upgradeable — No RAM Board Required
- BLITTER Graphics Coprocessor Included Standard
- Accepts External GENLOCK Synchronization
- Two Analog Joystick, Paddle, or Light Gun Ports
- Built-in MIDI, Printer, Serial, and Hard Disk Ports
- Built-in Operating System ROMS and 720K Disk Drive
- TOS Version 1.62 is Standard, Upgradeable to 2.06
- Includes RF Modulator for Connection to Television
- Monochrome Resolution of 640 x 400 (with SM147)
- Color Resolutions of 320 x 200 and 640 x 200
- Socketed PLCC 68000 Makes CPU Upgrades Easy
- DMA Port for Connection of Hard Disks & CD ROMS
- Macintosh or IBM Compatible with Upgrades



<input type="checkbox"/> Atari STE 512K	\$339
<input type="checkbox"/> Atari STE 1MB	\$379
<input type="checkbox"/> Atari STE 2MB	\$469
<input type="checkbox"/> Atari STE 4MB	\$559
<input type="checkbox"/> ICD AdSpeed STE <small>Installed! Brings Speed to 16MHz!</small>	\$249
<input type="checkbox"/> Atari TOS 2.06 <small>Installed! Get Atari's New Desktop!</small>	\$59
<input type="checkbox"/> 1.44MB Disk Drive <small>Installed! May Require Case Modification.</small>	\$169

Prices Subject to Availability of STE Computers.

Stacy: Laptop ST Endangered Species! Only A Few Still Exist In the Wild!



The Stacy is the most expandable portable ST model. Get yours while you can. When this batch is gone, there will be no more!

The Stacy was first made available in 1989. Its design is truly that of a portable ST system. It includes a full sized keyboard with a somewhat smaller numeric keypad, as well as a trackball. It has a very clear and crisp 640 x 400 grey/blue LCD backlit display, as well as a 720K floppy drive. While it is very packed inside, it utilizes a standard ST hardware layout, so conventional hardware upgrades, like the **ICD Adspeed**, **AT-Speed C-16** AT Emulator, and the **Spectre GCR** are a bit easier to negotiate than on the new ST BOOK. While the ST BOOK is technologically more advanced than the Stacy, the **Stacy** has long been the preferred machine of musicians and other folks requiring portable power. We thought, not too long ago, that we'd never see another **Stacy** again, but Atari just found some more, and we're bringing them to you at incredibly low prices! Just look at what you can get in a portable ST system! We also have a great battery pack & charger offer, and that makes the **Stacy** even more portable.

PICK YOUR STACY'S FEATURES!

• Stacy 2, 20MB Hard Disk	\$1499
• Stacy 4, 20MB Hard Disk	\$1599
• Stacy 2, 52MB Hard Disk	\$1699
• Stacy 4, 52MB Hard Disk	\$1799
• Stacy 2, 130MB Hard Disk	\$1879
• Stacy 4, 130MB Hard Disk	\$1979
• ICD AdSpeed (Stacy Installation)	\$259
• AT-Speed C-16 AT Emulator	\$409
• PC Ditto XT Emulator Software	\$79
• High Density Floppy Drive Upgrade	\$169

See Our Monitors Section, Page 4, For Great Monitors
For Your Stacy! Great for Home or Office Use.

BATTERY PACKS MAKE STACY GO!

We've found a sexy deal on a Stacy battery pack. You can get one battery and charge it while your Stacy is plugged in. Or you can get two batteries and have one battery charging while the Stacy is in use on the road.

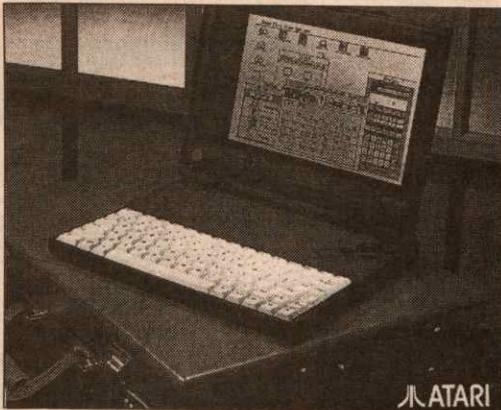
	• ToadPak Stacy Battery Only	\$74
	• ToadPak Battery & Connector	\$94
	• ToadPak External Battery Charger	\$69
	• All Three Of Above	\$209

If you're considering buying a Stacy, consider the **\$209** extra value meal deal, because with that you get **two batteries**, the **connection cable** you need for the Stacy, as well as the **external battery charger**. Battery life is about four hours, and with two batteries you could go eight at a time, or be infinitely charged!

More Atari Computers

(410) 544-6943 Friendly Advice

→ST NOTEBOOK



Atari's new ST Notebook computer has a big ratio of bang to cubic inch! Packed into a box no bigger than a stack of 300 sheets of paper is a complete ST computer - with a 40MB 19ms hard disk, 1MB RAM, and parallel, serial, cartridge, and MIDI ports. It runs on only 7 AA type batteries (or a rechargeable cell) and has a 10 hour battery life. It even includes the BLITTER graphics coprocessor. And it only weighs four pounds! The display is an excellent quality 640 x 400 reflective liquid crystal display. We're taking orders now!

- Atari ST Book Call
- 4MB RAM Upgrade Call
- Hard Disk Upgrade Call

Call for prices on external floppy drive & other accessories.

ATARI ABC 386SX & 386DX Computers



Atari introduced the 20MHz ABC 386SXII and 40MHz ABC 386DXII PC Compatible Computers at Fall Comdex in 1991. These machines, while not traditional Atari machines, provide exceptional value and speed to users requiring compatibility with the IBM PC standard. Just ask to have other options added to these machines - we can do it at little extra cost!

Both machines include:

- 512K Super VGA Card
- SIP RAM Sockets for Easy Expansion
- 3.5", 1.44MB Floppy Drive
- MS-DOS v5.0, Windows 3.0
- One Parallel, Two Serial Ports
- Game & Joystick Ports
- 101 Key Enhanced Keyboard
- Serial Mouse for Windows
- 220 Watt Power Supply

The 386SX includes:

- 1MB RAM, 40MB HD
- 6 Expansion Slots
- 20MHz 386SX

The 386DX includes:

- 2MB RAM, 80MB HD
- 9 Expansion Slots
- 40MHz 386DX

- | | |
|---------------------------|--------|
| • Atari 386SXII System | \$779 |
| • Atari 386DXII System | \$1349 |
| • Atari 386SX-60 Notebook | \$1489 |

Atari PTC1426 Super VGA Monitor
Acer 7015 Super VGA Monitor
VGA Toad Special Monitor

\$479
\$409
\$229

Decisions, Decisions: What Do You Need In Your System?

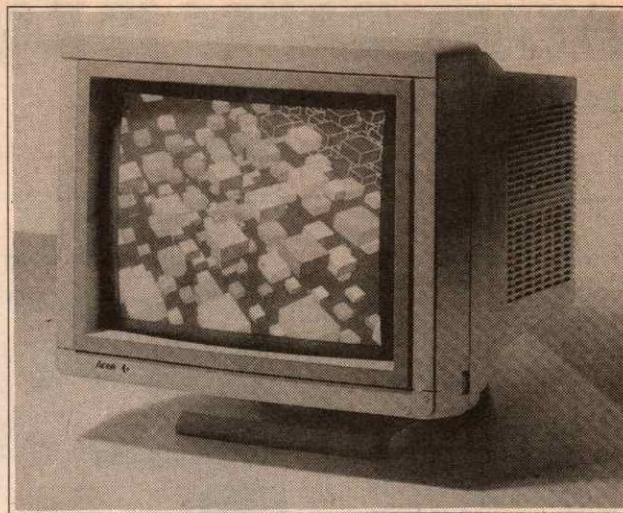
CPU Options	What Monitor?	Hard Drive?	Floppy Drives?	How Much RAM?	TOS Version?	Maybe an Accelerator?	What Programs?	Any Emulators?	What Printer?	New Mouse Device?
Animation	C,B,A	B,F,C	50+ or R	One/Two	2 or 4MB	Newest	It Helps	Lexicor	N/A	A,B,D,E
Desktop Pub.	C,B,A	A,C,D,E	50+ or R	One/Two	2 or 4MB	Newest	It Helps	DTP SW	A,B,C	D,C,A,B
Programming	C,B,A	A,C,D,E	50+ or R	Two	1 to 4MB	Newest	Sure	Languages	A,B,C	A,B,C
Games & Play	A,B	B,E,F	N/A	One/Two	Min 1MB	N/A	N/A	GAMES!	N/A	A
Music & Sound	A,B,C,D,E	Any	50+ or R	One/Two	Min 1MB	N/A	No	Music SW	No	A,B,C,D
Modemming!	A,B,C	A,C,D,E	50+ or R	One/Two	Min 1MB	Newest	Sure	Terminals	A,B,C	A,B,D
Word Proc.	B,C,A	A,C,D,E	50+ or R	One/Two	Min 1MB	N/A	Sure	See WP's	A,B,C	D,C,B,A
Family Fun	A,B,C	Any	50+ or R	One/Two	Min 1MB	N/A	N/A	Whatever	N/A	B,A,D,E
Education	A,B	A,B,E,F	50+ or R	One	Min 1MB	N/A	Sure	Education!	A,B,C	B,A,D,E
	A=ST/STE B=Mega STE C=TT030 D=ST Book E=Stacy	A=SM147 B=SC1435/1224 C=PTC1426-TT D=TTM194-TT E=MultiSync F=CM135	50+ = 50 or More MB	Self Explanatory	N/A Indicates That TOS Version Doesn't Matter	N/A Indicates That an Accelerator Is Not Necessary	General Type of Programs You'll be Using	A=Spectre B=PC Speed C=AT Speed N/A = Not Necessary	B=Dot Matrix C=Postscript D=Atari Laser E=Color Inkjet	A=Beetle Mouse B=Other Mouse C=Trackball D=Graph Tablet

Note: The system configurations depicted above are mere suggestions. They are based on several years worth of observations, both as users and a resellers. We've seen a lot of systems. These systems make sense, but you can feel free to improvise. That's what makes America great!

Thank Lee Seller from Lexicor Software for this table.

Multisync Means ONE Monitor

It happens to every ST owner at one time or another: you track down a piece of software you've been desperately searching for and you learn that it will only run on whichever monitor you don't have. You want to run **Calamus**, because you're sure that it's the best **DTP** program, but it only runs in monochrome. You want to buy **Lemmings**, but it only runs in color. Shouldn't there be a way to take advantage of all the features of color and monochrome using only one monitor? Well, a couple of years ago, people realized that monitors which could support multiple scanning frequencies (multisync monitors) could be used in both monochrome and color on the ST. The only problem with this new found fun was that it cost well over \$550 to get a multisync monitor and connect it to your ST. You could buy both monitors for \$100 less! But now, with our special Toad deal on the **14" Acer 7015** and the **TOADSWITCH-M**, you can get everything you need to use a multisync on your ST for only \$468. That's a **high quality, low glare screen**, for both monochrome and color, and most importantly it's **one monitor**. Don't be stuck with a two-headed beast any longer! Order the Acer toaday!



Acer 7015 Multisync ST/TT Monitor — \$409
Toadswitch-M Multisync Controller — \$59

The Atari SC1435, SC1224 & SM147 Monitors

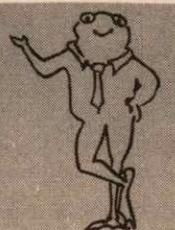
For those of you who are buying a new computer, satisfied with just one monitor, or don't feel like plunking down the money for a multisync, you might consider the **Atari SC1435** or **SC1224** color monitors. Or perhaps the **Atari SM147** monochrome monitor. The **SC1224** is the original 12" ST color monitor. While officially discontinued, we found a boatload of these monitors which we can pass on to you at an exceptional price. Their picture quality is exceptional. The **SC1435** is Atari's latest color monitor, and it's specifically designed for Atari's new STE and Mega STE computers. Its biggest features are its size, 14" diagonally, and its handy ability to handle stereo sound. The picture is sharp and bright on its glossy glass screen. The new for '92, 14", **Atari SM147** monochrome monitor is one of the best monochromatic displays available today. With a 70Hz refresh rate, its high contrast display makes it ideal for word processing, desktop publishing, music, programming and more! The **SM147** is also perfect for beginners because of its low cost and high readability. Also, if you're buying a **Mega STE**, consider our great Mega/Monitor bundles. They make buying a monitor look easy.



TOADSWITCH MONITOR SWITCHBOX! JUST \$39!

	Normal	W/Mega STE	System Savings!
• SC1435 14" Color Monitor	\$339	\$249	\$90!
• SM147 14" Mono Monitor	\$189	\$159	\$30!
• SC1224 12" Color Monitor	\$229	\$159	\$70!
• SC1224, SM147, Toadswitch	\$449	\$309	\$140!
• SC1435, SM147, Toadswitch	\$579	\$409	\$170!
• SC1435 14" Color Monitor	\$319	\$259	\$60!

We swear that this deal will make your teeth sweat! Our "Normal" column is the regular price. If you buy any Mega STE on the same order, you qualify for the "W/Mega STE" price! It's that easy to save money on your system! Call TOADAY to order!

**MAGNAVOX 1CM135**

This is a nice alternative to the SC1435. It's basically the same monitor. Both are based on the same electronics, manufactured by Philips. Only the Magnavox has more features, including:

- Composite Video Input
With Separate Chroma & Luma
For Use with Eight Bit or VCR
- TTL RGB CGA Input
- Green Screen Switch

Slightly cheaper than the 1435, and comes with the Atari connection cable. A two year warranty on all parts is included standard, also.

• Magnavox 1CM135 \$319
See Table on Left For Mega STE Deal!

Atari Introductory Software

(800) 448-8623 Orders

ATARI MAKES IT EASY TO GET STARTED!

Sound & Music

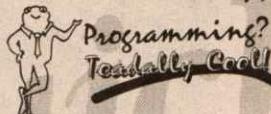
Use your ST's built-in sound chip, MIDI ports, or the supplied sound-sampling cartridge to experiment with sound and music. The **Music Maker Plus** program allows you to compose pieces on-screen and play them through the MIDI ports or through the built-in sound chip. You may also edit and play existing pieces. The **MIDI Recorder** records (and replays) everything you play on a connected MIDI instrument, and the **Drum Machine** allows you to design and edit a drum beat using a number of different percussion instruments. The **Atari Sample Master** cartridge is a low-cost, high tech, sound sampling cartridge that plugs into any ST, STE or TT computer. With the sampling and editing software provided, it's possible to record sounds from any line-level audio source, including CD players, cassette recorders, or VCR's. Once sampled and stored inside your ST, sounds can be played back through your TV or monitor or through your stereo, using the RCA plugs on the back of the STE. Sampled sounds can be edited to produce a variety of special effects. "Grab" sounds from your favorite video or album and mix them to put together amazing Max Headroom style sound effects. **Music Maker Plus** and **Sample Master** are an ideal introduction to sound and music on your ST, STE, or TT computer.

• SOUND AND MUSIC, ONLY \$59!

BASIC Programming

HiSoft's **Power Basic** will get you programming your ST, with complete access to GEM functions through an advanced BASIC dialect. Very fast and easy to use. Atari's recommended BASIC programming language for every level of user.

• BASIC PROGRAMMING, \$49!



Programming Utilities

Almost every utility you'll ever need is included in this exceptional package. Includes a resource editor for the construction of drop down menus, icons, dialog and alert boxes, and program graphics. Also includes a disk sector editor, for those circumstances when disk directory data or files must be modified directly. Designed to complement Power Basic or other popular ST programming languages, this package also includes a font editor, to give your programs a "customized" look.

• PROGRAMMING UTILITIES, \$59!

Word Processing

Calligrapher Lite is a GDOS based document processor which will handle conventional text-documents as well as technical papers that require detailed pictures and diagrams. Supports and includes multiple fonts. Import IMG, Degas, or Neochrome files into your documents. "Quick-Start" tutorial gets you started with this powerful word processing tool.

• CALLIGRAPHER LITE, ONLY \$39!

Spreadsheet

Ditek's **Masterplan** spreadsheet is a subset of the popular VIP Professional. Comparable to the industry standard, Lotus 1-2-3. Features include graphing and on-line help. And it's GEM compatible, of course.

• MASTERPLAN, ONLY \$49!

Database

Superbase Personal, from Precision Software, is a subset of **Superbase Professional** and features VCR-style access to custom data fields. Data appears in an easy to use index-card fashion. Perfect for mailing lists or collections. Easy to use and GEM-based. Even images can be linked to your records. Power without the price.

• SUPERBASE PERSONAL, \$39!

Personal Finance

Organize your finances and your life with Atari's Personal Finance package. Contains the **Personal Finance Manager** — special software to handle the financial transactions that surround your life. Keep track of bank accounts, savings, credit card transactions, and mortgages. Also includes a powerful electronic rolodex that keeps your address book and calendar up-to-date.

• PERSONAL FINANCE, ONLY \$39!

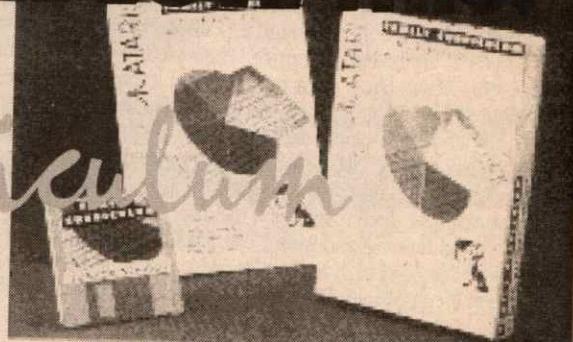
Home Productivity

Three powerful programs in one package: a word processor, a spreadsheet, and a database. Meant for beginners, the **Atari Word Processor** is a GEM-based, user-friendly word processor with Atari's unique "Quick-Start" tutorial which will make you a proficient word processor in minutes. The **ST-Base** program is an easy to use information management tool with the power of a full database system. Use it to replace your old address book, card index, or filing cabinet. The comprehensive **ST-Spreadsheet** will help anyone who needs to experiment with numbers. Set up "relations" between spreadsheet "cells," then change the input values and see what your formulae yield. Again, Atari's easy "Quick-Start" tutorials will have you online in no time.

• HOME PRODUCTIVITY, JUST \$39!

YOUR FAMILY WILL LOVE THIS!

Atari's **Family Curriculum Pack** is a set of five program packages. The **Play And Learn** Module is for the kids. It's a complete reading tutor! The **Creative Computing** Module will let the artistic members of your family have a non-destructive release with paint, music, and BASIC language programs! The **GCSE Revision** Module will help the kids, (or you), with French, math, and geography. The **Junior School** Module will quiz the younger kids on general knowledge, spelling, and math, too. And finally, the **Business Computing** Module contains a word processor, a spreadsheet, and a database. While all three of these are easy to use and learn, they're also just barely powerful enough to be used for business, too.



FAMILY CURRICULUM PACK FROM ATARI – ONLY \$129!

START A GAME COLLECTION!

Atari has made home-computer entertainment easy. With the **Discovery Extra**, you get four great games and three starter programs! Just look at what you get!

Final Fight: Battle through six breathtaking levels against the Mad Gear Gang, who've kidnapped Jessica in Metro City! Choose your character.

SIM City: A cult game of strategy. You run every aspect of a real city. Very educational and addictive, too!

Escape from the Planet of the Robot Monsters: Rescue Professor Sarah Bellum from the evil Reptilians.

Nine Lives: Save Claudette Cat from the mad scientist.

Includes **Neochrome Paint Program**, **First Basic**, and the **ST Tutorial Disk**. This package is an exceptional value.

DISCOVERY EXTRA PACK FROM ATARI – ONLY \$129!

WYNIWYG DTP



Introducing Calamus SL, the desktop publishing environment where what you *need* is what you get. Finally, a fully modular DTP solution that lets you custom build a publishing workstation to suit any application or budget, from simple typesetting to complete 4-color pre-press.

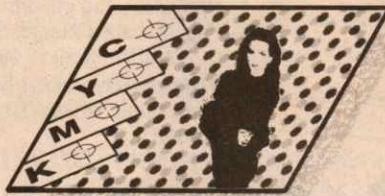
The core of the system is Calamus, a sophisticated page layout program with an intuitive easy-to-learn hierarchical interface. The most powerful features of the industry leaders are all here. Accuracy to 100,000th of an inch, magnification to 99999%, a full-featured word processor, 360° rotation of frames, Focoltone® color support and much more.

Calamus SL modules expand the core program into a fully integrated pre-press environment.

- Color separate with UCR & gamma control
- Edit and modify 24-bit images in CYMK
- Create and edit color vector art and text
- Auto-trace scanned-in raster artwork
- Mount print signatures automatically

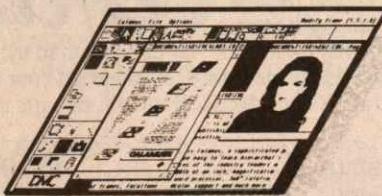
All this and more without ever having to change programs! Calamus also has driver modules ready for the best DTP industry peripherals. From 24-bit scanners to high-resolution multi-sync monitors, from Linotronic® imagesetters to color sublimation printers.

You can be assured that if it's state-of-the-art, we have created a Calamus SL module to drive it.



Calamus SL, using a unique and proven outline-font technology, gives you absolute "WYSIWYG" without printer font hassles.

With Calamus, what you see is exactly what will print. Our "Printer 1:1" feature lets you kern your text or manipulate graphics dot for dot at your printer or imagesetter's resolution. You've never had such precise control! Add to this the thousands of quality Compugraphic®, URW® and Linotype® fonts, and you have the most accurate control over type quality since the days of the photo-typesetter.



Big jobs are a breeze thanks to multiple master pages, automatic pagination and indexing, Mb's of RAM and unlimited virtual memory to handle those huge color TIFFs. Calamus SL rasterizes pages in software and drives imagesetters directly at maximum speed, without the need for expensive hardware RIPs. In fact, Calamus SL is the perfect front end for the new generation of micro-imagesetters like the Linotype-Hell Ultresetter.

Calamus SL utilizes the Atari TT030 (68030-based, 32 MHz with 24-bit color and networking capability) to create a sophisticated, yet cost-effective publishing environment. SL software modules allow you to upgrade your capabilities as needed, with a minimum of training. Call us for more information on how "WYNIWYG" DTP can work for you.



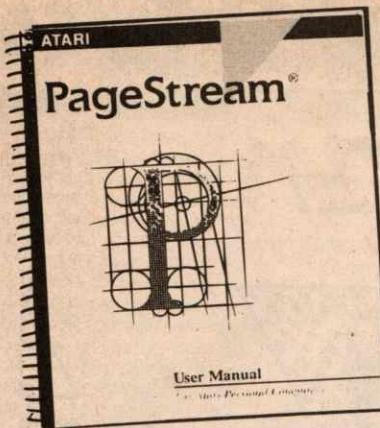
CALAMUS!

ISD Marketing Inc. • 2800 John St., Suite 15 • Markham, Ont. • Canada L3R 0E2
Telephone: (416) 479-1880 • Fax: (416) 479-1882 • GEnie: ISD • CIS: 76004,2246

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Desktop Publishing Software

(410) 544-6943 Info



Only \$179.95!

PageStream 2.1 Is Gorgeous

► **PageStream is cool!** Softlogik has continued the innovations they began with Publishing Partner in 1986 and now sells **PageStream 2.1**. This time they've thrown in some serious goodies such as the ability to use **PostScript Type 1 fonts**, **Compugraphic Intellifonts**, as well as standard **PageStream fonts**. **PageStream 2.1** also supports color — four color separations as well as spot color. **PageStream has improved its screen display — giving better WYSIWYG quality.** Now it computes font outlines on the fly, from Type 1, Compugraphic, or Pagestream font outlines. **Encapsulated PostScript graphics** from Adobe Illustrator on the Mac or PC can now be displayed on-screen. A whole mess of printers is supported, and importing text or graphics from just about any other popular program is easy. **PageStream's modularity** means that new printers and file formats can be easily supported too! And printing to **PostScript lasers**, **Composcript**, or **your local service bureau's imagesetter** couldn't be easier. **PageStream** has the best PostScript support on the ST. For an example of PageStream's output, look at this catalog. It was done entirely with **PageStream 2.1**.

Garamond Antiqua Bold and *Italic*
CS Times Roman Bold and *Italic*
CS Triumvirate Bold and *Italic*

Compugraphic IntelliFonts Included with PageStream 2.1

Calamus SL - 1992's High Speed DTP Solution!

► **Calamus** has been one of the leading DTP packages for the Atari since its introduction. It's developed by DMC in Germany and is excellently marketed in the United States and Canada by ISD Marketing. Calamus, in its smaller version 1.09N, is a very fast, accurate and robust program, and has become a staple for a large number of Atari DTP users. Its main advantage is its WYSIWYG (what you see is what you get) quality. Some other programs sacrifice WYSIWYG to a certain degree to obtain speed, more industry compatibility, and easier programming, but DMC has done nothing of the sort with Calamus. The font outlines used to create the screen display are the same ones used to create the printer output. All information, text and graphics alike, is stored in a compacted, or "vector" format in memory, and when it is to be displayed, a single algorithm computes a "bitmap" which varies only in its resolution, which is in turn dependent on whether you're going to your screen or to your printer. It's also **very, very fast**. Calamus 1.09N will often print documents to an Atari SLM605 laser in under ten seconds; and other printers are very fast as well. **Calamus SL**, the newest entry in the Calamus family, is a completely overhauled and enhanced version of Calamus, but skills learned by 1.09N users can be easily used in SL. SL has all the same great features of 1.09N, but also supports enhanced text-processing abilities, excellent new raster area controls, full color definition (and separations with the color separation module), style sheets, registration and crop marks, horizontal scaling of text, rotating and mirroring of any frame, alignment of frames to other frames and much, much more. **Calamus SL** also has another important feature: it's completely modular. That means that you can add on to the Calamus system on an as-required basis. No costly upgrades or a myriad of accessory packages will be necessary for you to get your DTP work done. So, if you're just starting out, consider 1.09N. If you're a more advanced user, consider SL. Both will provide a competent person everything they need to create excellent desktop publishing!



calamus

<input type="checkbox"/> Calamus v1.09N	\$169!	<input type="checkbox"/> Calamus SL	\$599!
<input type="checkbox"/> Calamus DTP Guide	\$31!	<input type="checkbox"/> Calamus Outline Art	\$159!
<input type="checkbox"/> Calamus Font Editor	\$59!	<input type="checkbox"/> CalAssistant (Helper Prog.)	\$29!
<input type="checkbox"/> Calamus Font Guide	\$24!	<input type="checkbox"/> Speed Line Autotracer	\$49
<input type="checkbox"/> Dataformer	Call	<input type="checkbox"/> SL Color Sep. Module	\$49

» OTHER MODULES AVAILABLE SOON — CALL FOR MORE INFORMATION! »

It's TOAD'S EXCITING WORLD of Desktop Publishing!

• PAGEASSISTANT	\$39!	• FONTVERTER	\$34!
• FONT DESIGNER PLUS	\$159!	• FONT DESIGNER	\$89!
• GENUS FONT EDITOR	\$169!	• ANY ADOBE TYPE 1 FONT	CALL
• ULTRASCRIPT ST	\$119!	• SILHOUETTE	\$89
• PAGESTREAM PLUS PACK	\$54!	• TYPE 1 CONVERTER	\$39
• COMPOSRIPT (PS EMUL.)	\$329!	• CHERRY FONTS (ANY)	\$34
• MS DESIGNS FONTS (ANY)	\$14!	• SAFARI FONTS (ANY)	\$24
• GOLDLEAF RETOUCHE	\$169	• DIDOT LINE ART	\$169



PageStream 2.1

Compugraphic Intellifont support. PageStream 2.1 supports hinted Compugraphic fonts. Hinted fonts give you crisp, high quality output, even on 180 dpi printers. This format of fonts is most beneficial to non-PostScript printer owners.

Adobe Type 1 support. With over ten thousand (10,000) different outline fonts available, this format is probably the world's most popular electronic font format. Type 1 fonts can be used to PostScript and non-PostScript printers. The IBM format is supported and Type 3 fonts are supported to PostScript printers.

Outline fonts to screen. Outlines show on screen for Compugraphic, Adobe Type 1 and PageStream fonts. What you see on the screen is what you get on the printout.

Over 1,000 pages per document. Page sizes over 1,200 feet by 1,200 feet, resizable at any time. Bleed objects (including rotated objects) off the page into a definable bleed area that can be used as a pasteboard.

Draw Bezier curves in PageStream. Not only can you draw Bézier curves but when you import Adobe Illustrator EPS, you can edit and show that graphic on screen. You can print Adobe Illustrator EPS to PostScript and non-PostScript printers at any size without jaggies.

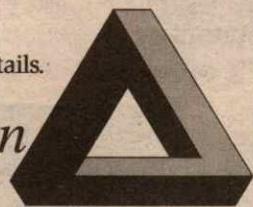
Import these graphic formats: GEM, IMG, Degas, Neochrome, Mac EPS, IBM EPS, EPSF, Adobe Illustrator EPS, PCX, IFF ILBM, IFF DR2D, TIFF (any number of bit-planes, including 24-bit), MacPaint and PageStream format graphics.

Full color support. PageStream has always supported color, but color just got better. With PageStream 2.1 you can define 1 billion colors with CMYK, RGB, or HSL values. You can also define and use Pantone colors. Naturally you can still import 24-bit pictures and print to your color printer or color separate to a Linotronic L330.

Also available: over 600 Typefaces, and 21 volumes of Clip Art. Call for details.

Soft-Logik Publishing Corporation

1-800-829-8608 / 314-894-8608



**This small butterfly
is unremarkable.
The others are a new
species you can breed
on your Atari computer.**

Automatic vectoring has arrived.

Avant Vector is a cutting-edge graphics tool that's fast, easy to use and surprisingly versatile.

The large butterfly wing on the right is a vector image created by Avant Vector. Using "automatic tracing," a bit image graphic (the smaller butterfly) was converted to a vector graphic, resulting in the smooth output you see here.

Vector graphics have big advantages over bit image graphics - they make much smaller files, and they can be scaled to any size without losing resolution or looking blocky. And Avant Vector's tracing routines are highly sophisticated; in a recent review of 7 Mac, PC, and ST auto-tracing programs, Avant Vector was rated best of the bunch!

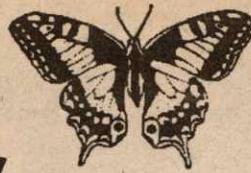
Avant Vector supports .PI3, .PC3, .IMG, .BLD, .PIC or .PAC formats. If you want to vector Mac, PC or Amiga graphics, you can do so with .TIF, .IMG or .IFF. Avant Vector

Plotter imports and exports .EPS files too, and can load and save HP plotter files.

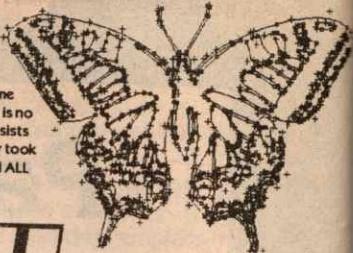
No matter which DTP package you use, Avant Vector is a wonderful companion. It creates .CVG files for Outline, Calamus or Repro Studio. And .GEM files for Fleet St Publisher, Timeworks, Publishing Partner, PageStream, EasyDraw and Repro Studio. With .EPS on the Plotter version, you can print to a PostScript printer, as well as the usual drawing and cutting options.

Since Avant Vector is a full featured vector graphics package, you can touch up any picture you've auto-traced, or draw pictures from scratch - with an intuitive interface you'll learn in a matter of minutes!

Call or write CodeHead Software for more information about Avant Vector (and its amazing cousin, Repro Studio). Special introductory pricing is available until December 31, 1991. Act now and save!



To the left is a pixel-based .IMG picture. In other words, the picture is made up of dots. It's a 58k file. The image can't be enlarged much more than this without the ragged edges showing.



To the right is a snapshot of the same image after it has been vectored. It is no longer made up of dots. It now consists of lines and Bezier curves. This only took a few minutes and Avant Vector did ALL the work for you.

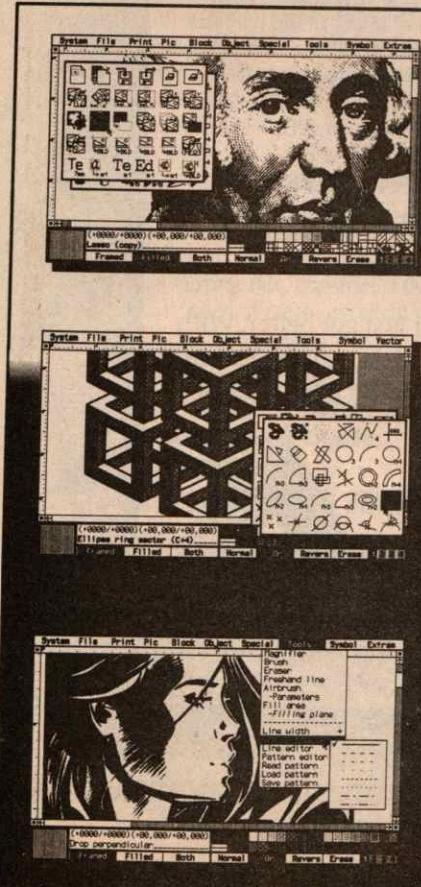
AVANT
VECTOR



This is the .CVG vector version: it can now be enlarged or reduced at will, and the file size is down to 10k. The .GEM version is about 20k but otherwise identical. As vector graphics, the images are easily and quickly manipulated. You can stretch, skew, rotate, etc.

CODEHEAD SOFTWARE

P.O. Box 74090 • Los Angeles, CA 90004 • (213) 386-5735 • fax (213) 386-5789



MEGAPAIN II

Professional

**Bit-Map and Vector Graphics Combined
in One Powerhouse Program!**

If you like beautifully engineered precision tools, you'll love MegaPaint Professional, the lightning fast all-in-one graphics program with a slick, easy-to-use interface.

MegaPaint was designed with the artist in mind. The list of tools is incredible: connected lines and Bezier curves, ring sections, parallel and perpendicular lines, rhomboids, polygons, concentric circles and ellipses - and all tools work in both bit-map and vector modes!

You can work on up to four pictures at once, even show them all in the same window at varying intensities. Unbelievably fast block and lasso

functions include rotating and scaling. MegaPaint can import Calamus outline fonts, and use them with its text editor and mail-merge features. A module is included to access several popular scanners; the ability to call external modules means that MegaPaint will never go out of date.

With all this power, you might expect an equally enormous price tag; but perhaps best of all, MegaPaint II Professional is priced well under \$200!

CodeHead
GRAPHIC TOOLS

PO Box 74090 LA, CA 90004 213-386-5735 Fax 213-386-5789

Desktop Publishing Software

TIMEWORKS

PUBLISHER 2!

• This is the New For 1992 Timeworks Desktop Publisher 2. It's a completely reworked version of the popular DTP package. Supports a wide array of printers including Postscript! Has a similar look and feel to Ventura Publisher on the PC and is a favorite among book, manual, and magazine publishers. Definitely worth a look!

Only \$139.95!

Arabesque PROFESSIONAL

- Easy to use, icon driven, pop-up menus
- Edit up to 20 drawing pages in memory
- Draw points, lines, Bezier polygons, B-splines, circles, ellipses, arcs, 2D/3D, and rectangles in bitmap or vector mode
- Choose from various line styles and drawing modes
- 108 different editable fill patterns
- Full, irregular shape block operations
- Outputs to popular printers including bubble jets
- All functions operate rapidly in magnification mode
- A complete UNDO feature
- Load and Save many vector and bitmap graphic types
- Configurable spray can feature
- Complete selection of boolean drawing modes
- Convert vector graphics to bitmap graphics

Arabesque Professional \$129!

NEW Convectr from Grinif, Fast Vectorization Program Only \$99!

Avant Vector and MegaPaint Professional

Vector Graphics!

• **Avant Vector** is an excellent vector graphics program. Comparable to (but faster and fuller-featured than) Adobe Illustrator and Corel Draw, **Avant Vector** will allow creation of vector graphics as well as the conversion of bitmap graphics to infinitely flexible and smooth vector graphics. A full array of graphic editing tools is at your disposal for: rotating, stretching, mirroring, skewing and more. So, if you've got line art you've scanned (of say, our Toad logo), all you have to do is load your IMG, TIFF, Degas, or IFF file into Avant Vector and tell it "vectorize." The program will take care of the entire vectorization process! Then you can edit it, fix it, and smooth it out at will! This program is a must for any serious desktop publisher.

Bitmap Graphics!

• **MegaPaint Professional** is an insanely fast and powerful bitmap graphics tool. Not only can you create your own graphics, but it can be used to edit existing IMG, TIFF, Degas, or Neochrome bitmapped images. This program supports more graphic tools than any other, giving complete control over circles, arcs, ellipses, rectangles, and more. It has been clocked to be the fastest bitmap image manipulator for the ST in such operations as image rotation and movement. And its modularity means that support modules for other file formats or hardware (such as hand or full-page scanners) can be easily added later. Don't wait another day using a slow drawing tool; get the fastest drawing tool **today** and speed up *your* life!

VECTORIZED
PORCUPINE

• **Avant Vector EPS – \$479!**

• **MegaPaint Pro – \$169!**

**Ask About Other CodeHead
Graphics Tools!**



NEW FSM GDOS – COOL!

• Atari's new **FSM GDOS** does outline font scaling and drawing in just about any GDOS compatible program! Utilities to convert from Postscript Type 1 fonts to FSM compatible fonts will be available if not included. Not available at time of writing, but should be available at print time.

• **ATARI FSM GDOS – Only \$54!**

PAGESTREAM QWIKFORMS

• This package contains over 100 ready-made, completely editable business forms, page layouts, and legal documents for use with **PageStream**. Everything from applications, invoices, calendars, and greeting cards, to architectural symbols, resumes, order forms, and envelopes. Perfect for the pressure-cooked **PageStream** user who doesn't have time to worry about making these sorts of forms.

• **QWIKFORMS – Only \$28.95!**

IMAGE CAT'S NO PUSSYCAT

• Did you ever need to find the clip art you used on your **Aunt Hilda's** birthday card last September, so you can re-use it this year? I bet you have. That's why **Chet Walters** made **Image Cat**. It's a complete cataloger of **IMG** and **Degas** files. So don't waste more time thumbing through disks! Use **Image Cat** and find it fast!

• **Be Kind To Aunt Hilda! – Only \$29!**

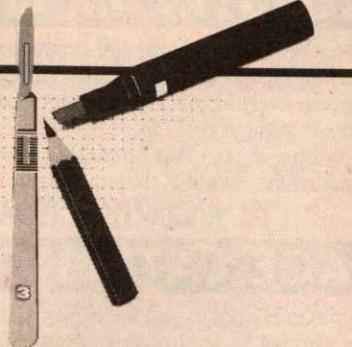
DTPAINT: QUICK IMG EDITING!

• Ever been working on a project in **Calamus** or **PageStream** and find that you've imported a graphic file which is simply screwed up? I bet you have. What a pain in the proverbial derriere it is to go out to the desktop, run **Touch-Up**, erase two dots of your image, reload your DTP program and resume. What if you could just fix your image on the fly, using a desk accessory from within **Calamus** or **PageStream**? Well, you guessed it, now you can. **DTPaint** is that desk accessory, with full editing abilities plus the ability to load **Degas** and **MacPaint** files. It even includes Mac-like editing features — the jack-knife and lasso! Say hello to greater DTP productivity!

• **DTPaint Accessory – Only \$39!**

Announcing Didot and Retouche!

Didot
lineArt



Didot is a graphic artist's dream come true. With it you can produce illustrations, headlines, and logos and the like—quickly and easily. Designed with the graphic artist in mind (rather than the computer user), all graphic elements are assembled and freely manipulated on a worktable, without the use of cumbersome frames.

Create or modify vector graphics with a wide variety of tools. Simple graphic elements may be enlarged, reduced, rotated, sheered or freely manipulated as well as combined into complex illustrations. Didot also supports an incredible array of snap-to options for precise, repeatable work.

Bitmap graphics may be manipulated or auto-traced, turning them into vector graphics. The Didot auto-tracer is exceptionally fast and produces truly usable vector graphics.

Didot also lets you design with text using Calamus and PostScript Type 1 fonts. Any font's outlines can be manipulated as line art, and the built-in font editor even lets you design your own typefaces.

Didot offers a number of useful output options including tiling, layer control, and mirroring. Didot also lets you export PostScript files, the industry standard.

Didot and Retouche retail for \$199.95 each. The optional bezier auto-tracer for Didot has a retail price of \$199.95. Professional versions of Didot and Retouche are available.

Didot and Retouche require a monochrome monitor and one megabyte of memory.

All trademarks are property of their respective owners.

RETOUCHE



Retouche is a photo realistic image processing program that lets you work with 256 grey levels. Import color, monochrome, and halftone formats, or scan in an image directly—then use any of Retouche's many powerful features to process your image.

A complete set of tools is available for drawing, painting, smudging, softening and much more. Fine control over the functionality of each tool lets you obtain professional quality results.

Especially useful are Retouche's block and mask functions. With them, you can limit the processing area of your work or seamlessly integrate portions of different images into spectacular montages. All tools can be used to erase or combine multiple images for unlimited creative effects.

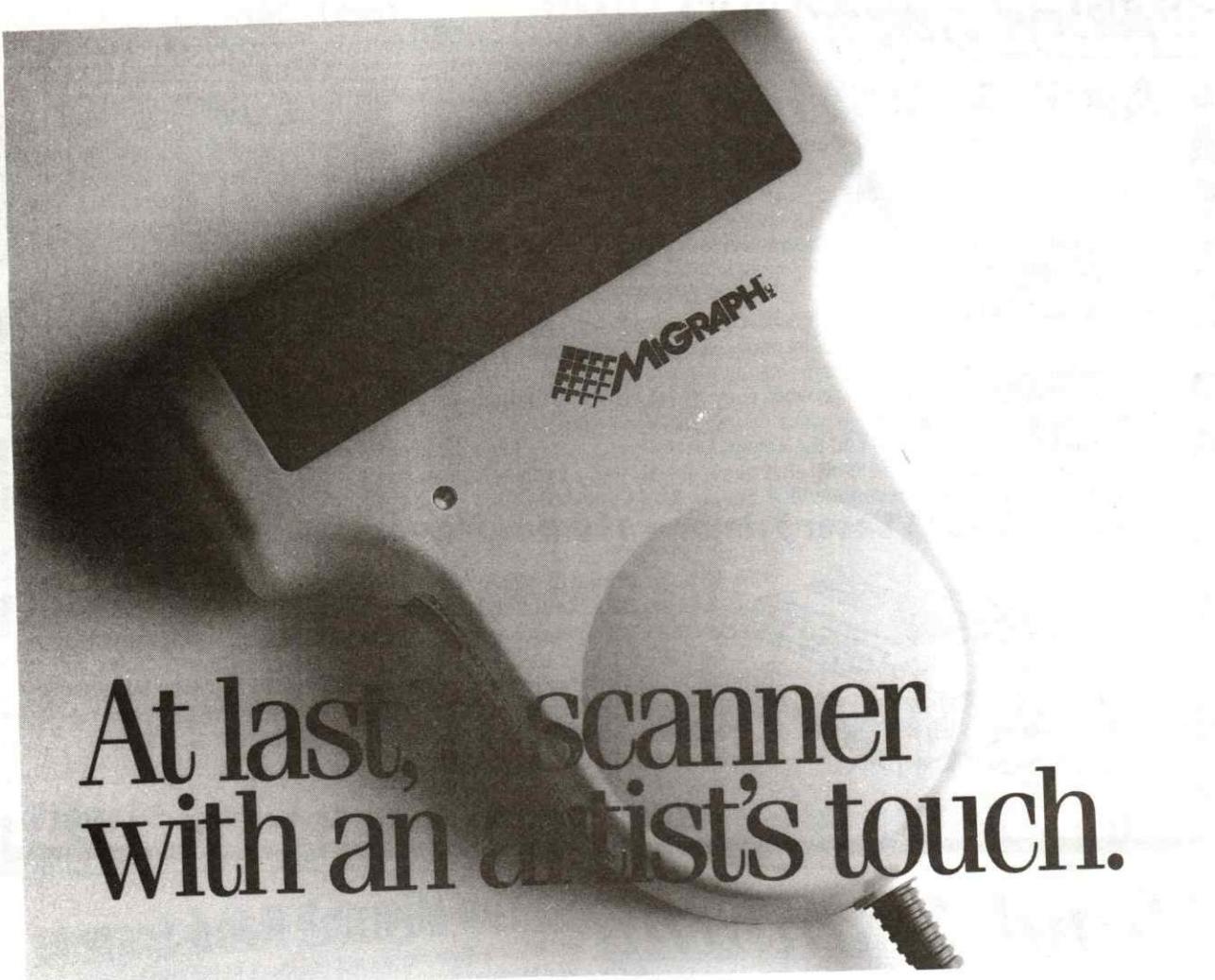
When you're ready for output, you can use Retouche's sophisticated dithering functions and either print directly from within Retouche or export the image in .IMG or .TIFF formats (among many others) for use in DTP programs to produce sophisticated documents.

 **Goldleaf Publishing, Inc.**

700 Larkspur Landing Circle suite 199

Larkspur CA 94939

415/257-3515



At last, a scanner with an artist's touch.

Here's the hardware-software graphics team you've been waiting for: the Migraph Hand Scanner and Touch-Up[®] for the Atari ST.

Our scanner has everything that you expect in a good black-and-white scanner. But it comes with software you've only dreamed about.

Until now.

With Migraph's powerful design team, you can produce high-resolution, monochrome scanned graphics — from start to professional finish.

Quality hardware for a strong start.

The Migraph Hand Scanner has the powerful features desktop publishers want most: A scanning window over 4" wide. Four scanning resolutions — 100, 200, true 300, and true 400 dots per inch. Adjustable contrast. Three dither settings for scanning photographs. Plus a special setting for line art.

And that's just for starters.

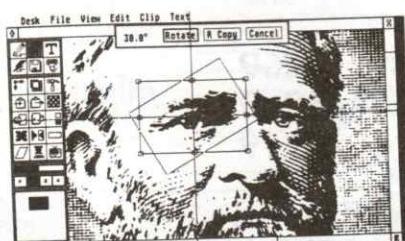
Powerful software for a dazzling finish.

Other scanners come with software that can do a few basic tasks. Our scanner comes with Migraph Touch-Up, the complete image editor

and design tool.

Scan, edit, and enhance — even create original images. Touch-Up can do it all.

Its versatile editing functions include all the standard commands, plus powerhouse extras like rotate by degree and scan to clip area.



Editing features like rotate by degree give images that professional touch.

And Touch-Up is outfitted with a complete paint program, a full set of editing tools, and an array of special effects. It even offers scalable outline fonts in popular typefaces.

Software that just won't quit.

Size is no object for Touch-Up. It can handle images of almost any size and resolution (based on available hard-drive storage space, of course). And its editing tools — which work at all four zoom levels — extend beyond the size of the screen.

Compatibility is Touch-Up's specialty. It imports and exports files in IMG, Degas, PCX, and others. So Touch-Up is compatible with programs like Calamus and PageStream. And you can export images for use on the PC, Mac, and Amiga, too.

The Migraph Hand Scanner and Touch-Up: Powerful tools for professional publishing.

Our scanner is the equal of any in its class. Teamed with Touch-Up, it's in a class all its own. See your dealer today for a great deal.



Desktop Publishing Stuff

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Atari's SLM605 FAST Laser

The **Atari SLM605** is the *fastest possible way to print* on the ST/TT computers. Instead of using the traditional **parallel (Eight Bit)** or **serial (One Bit)** ports, the **SLM605** takes advantage of the ST's **DMA (Direct Memory Access)** port. What this means is that the **laser printer** and the computer share the same memory. In other words, rather than have the computer create one image in its memory and then squirt it out to the printer for it to store it in its own separate memory, the computer creates the image in the computer's memory and then the laser printer just prints an image of that memory. This saves time. Refer to the **Calamus** box where we're talking about how fast print times are. They're typically around **two to ten seconds** compared to the same in **minutes** to do comparable tasks on other printers. The **SLM605** isn't just another 6ppm fast printer though. Blacks are **very black** and the printer behaves solidly. Based on the same printer as the Epson EPL-6000 and the Abaton Laserscript, toner and drums are readily available. Toner life is about 4000 sheets and drum life exceeds 15,000 sheets. Buy the **SLM605** now and see what fast, clean DTP is all about! Requires 1MB RAM and 4MB is darn recommended. See our **RAM Upgrades!**



- **Atari SLM605 Laser Printer – 120 Day Warranty, Only \$1049!**



The QMS-PS 410 Postscript Laser

This is a nice printer. Running a **Motorola 68020 at 16MHz**, expandable up to **6MB internal RAM**, the **410** is a capable and fast postscript printer. It's perfect as a **Postscript proofing printer** (so you'll know if an imagesetter will work), and has great 300 dpi output too! The **410** has three actively buffered ports: parallel, serial and Appletalk. And the printer will automatically detect PostScript or HP PCL. Uses the 4ppm Canon Engine. A perfect companion to PageStream 2.1!

- **Killer QMS-PS 410 – Special at \$1699!**

Hand Scanning

Migraph has always had quality graphics products for the Atari ST computers. The Migraph hand scanner has been a quality graphics scanner right from the start. Now, with **Migraph OCR**, you can have automated data entry using the Migraph hand scanner! **OCR** will convert any scanned text into a standard **ascii** file for importation into your favorite word processor or database. The Scan-It Scanning Tray will allow scanning and merging of two halves of a page, so wider pages can be accommodated. Check into these products. If you're serious about Atari DTP, you'll want Migraph's stuff!

- **Migraph Hand Scanner** \$259
- **Migraph OCR Software** \$269
- **Scan-It Tray & Software** \$119

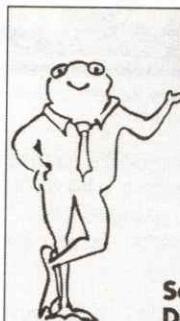
The Migraph Hand Scanner

When you've got **art** you want to incorporate into your desktop publishing documents, the best way to do it is to **scan it in**. And the best scanner for the job is the **true 400 dpi Migraph Hand Scanner with Touch Up**. For only \$259, you can have the most trusted hand scanner available for the Atari ST/TT! Comes with **Touch-Up** and includes the ability to handle greyscale images, which comes in quite handy when it comes time to print on an imagesetter or use on a greyscale monitor. Order your **Migraph Hand Scanner** today and see why so many people think it's so swell! (*All of the line-art in this catalog was scanned with the Migraph Hand Scanner!*)

Migraph Hand Scanner – \$259!

SUPPLY CENTRAL

• SLM804 Toner	\$45
• SLM804 Drum	\$154
• SLM605 Toner	\$29
• SLM605 Drum	\$129
• HP DeskJet Cart.	\$18
• HP DeskJet Refill	\$14
• HP Single Color Refill	\$16



TOAD'S CHEAP LASER PRINTER ALTERNATIVES!

Canon BJ-300	Call!
Star SJ-48 Portable	\$299
SLM804 Refurb Laser	\$579!
HP Deskjet 500	\$419!
HP Deskjet 500 Color	\$729!

See our "Printers" Page (15) for more Details on These Great Printers!

(800) 448-8623 Anecdotal Evidence

Home Printing Fun!

Printmaster Plus

This program is the "Print Shop" equivalent for the ST computer. It creates greeting cards, banners, signs, posters, calendars, and more. Its built-in graphic editor will let you include custom graphics in your creations, and the free graphic library contains many great graphics for holidays and more! Compatible with most dot-matrix and HP compatible printers. Includes the Atari ST version and IBM PC version in same box.

- Printmaster Plus, Only \$39!
- Graphics Library 1&2 \$29!

Awardmaker Plus

Is your child an "A" student? Is your mother-in-law a royal pain in the rear? Make 'em a certificate and make it official! As the box to this fine package states, "Create a keepsake they'll be proud to display...in minutes!" Many styles of borders, graphics, and fonts to choose from! Compatible with most printers. Comes with free gold embossed press-on seals.

- Awardmaker Plus, Only \$34!

Word Search Creator

Makes great word search puzzles in sizes up to 24 x 13 letters. Just feed in the words you want to use, and in seconds it will create a fun to solve word search puzzle, including a complete solution sheet! Great for kids, teachers, and anyone who loves a puzzle. Compatible with Epson compatible printers. Puzzles may be saved as Degas pictures for use with desktop publishing packages, also.

- Word Search Creator \$19!

Graph Maker!

Do you need to make graphs, but you're intimidated by complicated spreadsheets and printer drivers? Graph Maker will create simple pie, bar, and line graphs in seconds — just by entering a few numbers! Supports color or monochrome monitors and many labeling options. Prints to Epson compatible printers, and graphs may be saved as Degas pictures for use with desktop publishing packages. Great for science or finance.

- Graph Maker, Now Only \$39!

Videotext Your Videos

Do you direct your own home movies? Have you ever wished that you could add professional looking full color titles to your best works? Every line of text can be in a different font, style, size, and color. Degas pictures may be imported as background for your text. A variety of wipes and text movement effects are available. For instance, you could have, "My Summer Vacation in Hell," bounce onto your screen, with red rocks as a background, and then fade to black. Add your own music and you're set! Requires ST with RF modulator.

- Videotext Video Titler \$59!

Word Quest II

Want to make a great crossword puzzle even the kids will love? Incorporate your pets into the puzzles? Make slurs about family members? Perfect for the resentful computer owner! Or for the teacher! 1st across can be the capital of Zambia. Get yours today!

- Word Quest II, Only \$29!

HEY KIDS, MAKE FUN BANNERS!

Has your Atari read any good books lately?

Introducing Migraph OCR

With Migraph OCR and a scanner, you can now give your Atari all kinds of interesting reading material — typeset articles, laser-printed reports, even NLQ dot-matrix-printed manuals — without retyping the originals.

The story you've been waiting for.

Our professional-quality optical character recognition software lets you turn scanned IMG & TIFF documents into editable ASCII text files, ready for export to your favorite desktop publishing and word processing programs.

Great plot, memorable characters, nonstop action.

Omnifont technology — the leading edge in OCR processing — gives Migraph OCR the power to recognize text quickly and accurately.

It automatically recognizes more than 20 popular typefaces, including Courier, Helvetica, and Times. And you can easily train our smart software to recognize — and always remember — other typefaces, numbers, symbols, and special character sets.

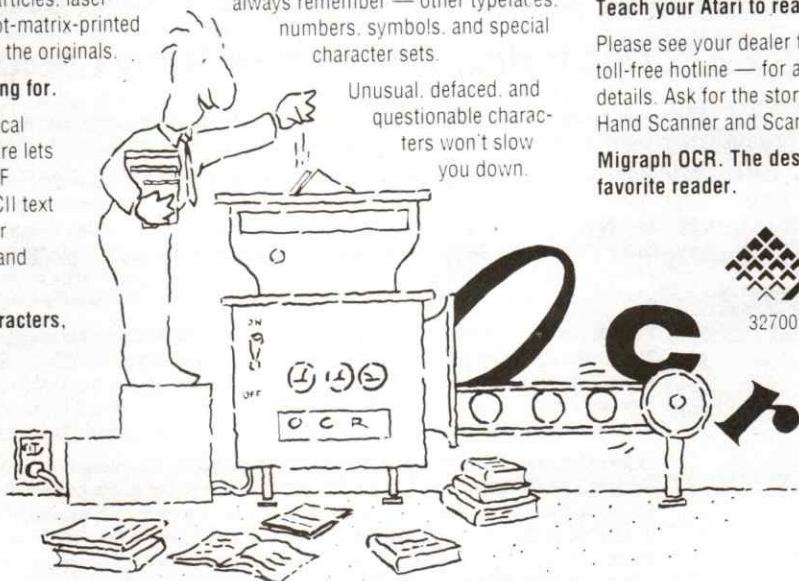
Unusual, defaced, and questionable characters won't slow you down.

Migraph OCR uses context-sensitive lexicons (for English, French, Dutch, and German) to make intelligent, time-saving decisions as it processes your text.

Teach your Atari to read today.

Please see your dealer today — or call our toll-free hotline — for all the dramatic details. Ask for the story of the Migraph Hand Scanner and Scanning Tray, too.

Migraph OCR. The desktop publisher's favorite reader.



MIGRAPH
32700 Pacific Hwy. S., Suite 12
Federal Way, WA 98003

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Hewlett-Packard Deskjet



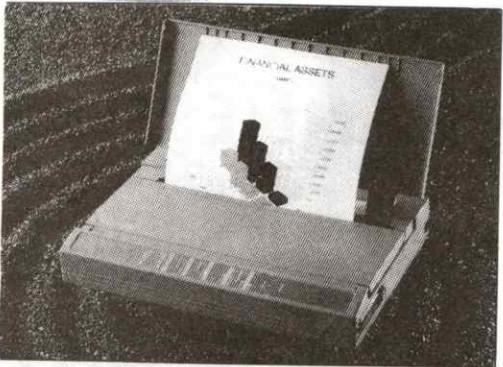
The Hewlett-Packard Deskjet 500 and 500C are two of the most popular laser-printer alternatives ever made. Sporting laser quality output at a fraction of the price of a laser printer, the Deskjet printers have become an American mainstay in the computer market in less than four years. The **Deskjet 500** is the black and white answer, featuring black and white, 300 dpi output. The **Deskjet 500C** is the color alternative, and features full color, 300 dpi output. By making use of a unique three-color print cartridge, color printing is totally automatic. You don't have to switch any cumbersome ribbons, worry about paper alignment, or do anything else archaic.

Until now, laser quality has meant laser printers. Until now, color laser quality printing has meant spending thousands of dollars. And color print drivers (for the inexpensive laser quality output, and the 500C for color proofing and fun, too!

• **HP Deskjet 500 – \$419**

• **HP Deskjet 500C COLOR – \$729**

StarJet SJ-48: 300dpi to go!



Star Micronics' StarJet is a low-priced, **portable**, alternative to a laser printer. Whether you use it as a portable or not, you'll appreciate its small footprint, light weight, and quiet operation. And you'll love its 300dpi, laser quality, dark black bubble jet output. Driver-compatible with the popular Canon BJ10e portable, this printer is now being widely accepted and drivers for many popular programs are appearing. Ink comes in easy to use cartridges, so there are no messy ribbons. Will run on a battery pack or on AC power. Comes with AC adapter. So you've got to type up a proposal using your ST Book or Stacy, and you're on an airplane full of psychotics who just *bare* the sound of a dot-matrix printer? The quiet whirr of the StarJet will keep you from being forced out through a window. And the beautiful graphics or text output will insure that you get the deal! Anyway, we think you'll love this excellent printer. It's truly revolutionary.

• **StarJet SJ-48 – Now Only \$299!**

DOT MATRIX SOLUTIONS: COLOR, TOO!

Panasonic

KXP-1180	9 Pin NLQ	\$179
KXP-1123	24 Pin LQ	\$219
KXP-1124	24 Pin LQ (Faster)	\$299
KXP-2123	24 Pin LQ (Quiet)	\$269
KXP-2180	9 Pin NLQ (Quiet)	\$199
Color Kit for 2123/2180		\$59
KXP-1624	24 Pin LQ (Wide)	\$359

Star Micronics

NX-1001	9 Pin NLQ	\$149
NX-1020	9 Pin NLQ Color	\$199
NX-2430	24 Pin LQ	\$259
NX-2420	24 Pin LQ Color	\$309

Citizen

200GX	9 Pin NLQ	\$179
GSX-130	24 Pin LQ	\$249
GSX-140+	24 Pin LQ (Faster)	\$299
Color Kit		\$59

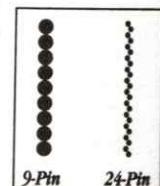
Dot Matrix Printers: So Many Choices!!

When I bought my first dot matrix printer, the only choice you really had to make was slow or slower. Now, printer manufacturers have a zillion choices. And unfortunately, many consumers don't have any idea what the different features will do for them. So here's a quick printer-feature tutorial!

9-Pin vs. 24-Pin: *What's in 15 extra pins?* A dot matrix printhead is a vertical column of metal "pins." They're "fired" as the printhead scans across the paper, making letters and graphics. 9-pin and 24-pin printheads are roughly the same height. But the 24-pin unit has 15 extra pins packed into the same space. As you can imagine, that means higher resolution. 9-pin "NLQ" (Near Letter Quality) printers can combine two scans of the 9-pin printhead to achieve attractive, high resolution characters, but 24-pin "LQ" printers will always have slightly higher resolution.

Fast vs. Faster: *How fast is fast enough?* You will notice that many printer manufacturers make two revisions of similar printers, one faster than the other. The "faster" model is usually about 20% faster than the standard model. But beware: printer "speeds" usually are rated by characters-per-second, and may not have any relation to graphics speeds. And frequently print-time is bound by the software you're running, and not the actual printing hardware. You'll find this especially true with DTP software. So frequently, the standard model is just fine.

Color: *Make sure your software can use it.* For Americans, for everything from TV to film to computers, choosing color over black-and-white has become a reflex action. And with dot matrix printers, this isn't always a wise choice. While Panasonic, Star, Citizen, (and Hewlett-Packard) all make excellent color printers, you have to confirm that the software you intend to run can actually take advantage of the color capability. Otherwise, you'll have a lovely color-capable printer, but your output will still be black-and-white. Note that some printers have built-in color, and others have it as an optional color kit. All dot-matrix color printers can use the same standard 9 or 24-pin color driver software.



NEED A PRINTER CABLE? ST PRINTER CABLES ONLY \$12! SEE SUPPLIES PAGE!

Power Up!

**... with COMPO Software,
Setting New Standards.**

THAT'S WRITE

That's Write is a radically new word processor for the Atari ST. The number one selling word processor in Germany, That's Write has a host of powerful features yet is very easy to use. It's perfect for experienced users and novices alike.

That's Write has all the features you'd expect in a state of the art word processor and then some : DTP-like paragraph tags, 110,000 word spell checker with optional hyphenation (either automatic or prompted); multi-columns with user-defined gutters; automatic Table of Contents and Index generation; footnotes, headers, and footers; widow and orphan control; unlimited user-defined macros; and it includes at least 10 fonts (more with some printers) including a special symbols font.

That's Write uses COMPO's amazing printing technology - you can use your printer's built in fonts for fast printing and bitmapped fonts for different styles or distinctive headlines, all the while totally WYSIWYG. That's Write supports ALL of the fonts supplied with most popular printers and optionally prints directly to high speed printers for extremely fast output.

That's Write has a SRP of \$199.95 and requires 1 Mb of memory and two floppy disk drives. A Junior version, Write ON, has a SRP of \$99.95 and requires 512 Kb of memory.

Also available is C-Font, a fast, easy to use program that converts Calamus format fonts to That's Write, as well as GDOS and other bitmap formats. SRP is \$49.95.

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COMPOSCRIPT

If you use DTP, Text, CAD, Graphics, Music Notation or Presentation software, then you will almost certainly benefit from CompoScript. CompoScript enables you to print PostScript files on non-PostScript printers. In addition, a PostScript file can be shown on the screen or converted to a graphic file (GEM Image or TIFF), so that you can subsequently import it into a program which does not support PostScript.

Many programs can produce PostScript files, and by using CompoScript you know you will get the best quality possible, both on screen and printer. If you use programs on other operating systems, such as Macintosh, MS-DOS, Amiga, or Windows, you can save your files to disk and print them with CompoScript.

Flexible user control means portrait, landscape, mirrored, or scaled output. You may configure memory usage and the built-in virtual memory, and adjust resolution for file conversion or screen display; even edit screen angle and frequency for grey scale output!

CompoScript includes the standard set of 35 PostScript Type 1 typefaces (designed by Bitstream) and not only can these fonts be used by other applications, but any Type 1 font may be used in CompoScript as a built-in font. Additionally, the entire Bitstream Type 1 Library is available—over 1000 fonts!

Despite its incredible feature list, CompoScript has a SRP of only \$349.95. CompoScript runs on any Atari ST/STe/TT with at least one megabyte of memory and a hard disk. It supports virtually all dot matrix, ink jet, and laser printers.

 **Goldleaf Publishing, Inc.**

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Word Processing

(800) 448-TOAD Orders

Atari Word Processors

A Treatise on Freedom by Dave Troy

The **Atari ST Computer** is a natural choice for a word processor. The fast, built-in, GEM interface is a great foundation for a word processor, and the clear color display and the high resolution monochrome display both are perfect for typical word processing tasks. So what's the question? The question that's left up to prospective word processor buyers is, "How do they work?" And when we answer this question, you'll have some idea which program is best for you.

On the Atari (as well as in the world in general), there are essentially two kinds of word processors. The first is the type that uses your printer's built-in **fants**. Most printers, whether they're laser, dot matrix, or inkjet contain at least four fonts.

A word processor of this type, to print the word Atari, might tell your printer, "Give me an 'A' in your built-in Courier font, and then say 'tari', in the Sans-Serif font." The printer says, "Golly, OK, boss," and then looks up pictures of those letters in the appropriate fonts, and then prints those pictures. This is fast. Typically, these pictures of letters are low resolution, so it doesn't take long to print them. They're stored in ROM so they're easy to access, and most importantly, they're already in the printer, so no transport of that information is necessary. But bear in mind, you will be limited to the fonts, styles, and sizes that live inside your printer.

Graphics-based word processors work differently. Rather than relying on the fonts in your printer, you use fonts that are included in your word processor. So when you go to print out your text, your computer draws a graphic picture of the page and sends that whole picture to the printer. The printer then says, "Gee, a picture. Good, I don't have to think about it." This technique takes longer because it means that more information is sent to the printer. Yes, it does mean that you can include graphics and use large and unusual fonts, but it does take longer to print. That's for sure.

So, what does this mean? That's Write & Write On take especially good advantage of printer fonts, and can access internal fonts of many printers. **Word Writer**, **1st Word Plus** and **WordPerfect** also fall into this category. **Calligrapher**, **Word Up**, and **Wordflair II** are graphics-based, and use Atari's GDOS (or FSM GDOS), and will print significantly slower than the text-based programs - but again, you may find it's worth your while.

I use many of these programs, because each one has different strengths. You, too, may find you want more than one. But start somewhere. Order the word processor of your choice! If you have any questions, call us to chat!

That's Write & Write On

That's Write and Write On are two new word processors imported by **Goldleaf Publishing**, the people who brought you Wordflair II! These programs are a little different from most, though. They're true, text-based word processors, in that they **don't need GDOS**, but they still support multiple fonts! In fact, they support something rarely used: the fonts built into your printer! Did you notice, when you got your printer, whether its a dot matrix, inkjet, or laser printer, that there are several fonts and several styles **built-in** to your printer, but none of your programs seem to be able to utilize them? There's no reason why this should continue! Built-in printer fonts are the fastest way to get quality output! **Write On** and **That's Write** are essentially the same program, but **That's Write** has a 110,000 word spelling checker and supports automatic index and table-of-contents generation. Both programs support excellent **WYSIWYG** features and have proportionally spaced fonts. Both come with at least ten fonts and other formats can be converted to the Write On / That's Write format. They support multi-column printing, importing of IMG graphics, and mail merge. There are several foreign language dictionaries and some specific printer-font disks. Call for details. Again - these programs are fast. If you're tired of waiting for GDOS, and you like your printer fonts, get one of these two programs! Requires 512K (but one meg is recommended), at least one double sided drive. Mono or color.

• **Write On - Only \$89! That's Write - \$169!**

Wordflair II: Document Processor

Wordflair II integrates the abilities of a word processor, desktop publisher, a spreadsheet and graphing program into one easy to use package. Its **word processor** includes a **spelling checker**, a **thesaurus**, **column support**, and more. Importing **graphics** from many different picture formats is easy. A complete **financial calculator** lets you integrate **math functions** into your documents and create and include **pie, line, and bar graphs**. Numerical values can be **dynamically linked** to graphs, so when you update the number of apples you picked over at **Cousin Betsy's** house, your graph will change too. Allows importing from many different spreadsheets and databases. **Wordflair II-FSM** also includes the new **FSM GDOS** from **Atari**, giving on the fly **outline font drawing**. Try the **Wordflair II** document processor to day! Works with 1MB, mono or color.

• **Wordflair II - \$99! FSM GDOS Version - \$169!**

GramSlam & Grammar Expert!

GramSlam catches over 1,200 embarrassing grammar and writing-style problems - before anyone else sees them. GramSlam's comprehensive writing-style statistics show you how readable and effective your writing is. All you have to do is feed your text, from your favorite word-processor into **GramSlam**, and it will do all the rest. It offers suggestions on how you can spruce up your writing. You don't have to take its advice, but isn't it nice to have a second opinion?

• **GramSlam - Just \$29!**

Steno 2!

Steno 2 is a powerful desk accessory based text editor. Accessible from within any GEM program, Steno 2 is always ready to edit files. Meant to be a companion to **Stalker 3**, (the terminal program), it provides a type-ahead buffer when online. Great for programmers (to quickly edit program code) and for modemers!

• **Steno 2 - Just \$29!**

Grammar Expert provides online help for the English language. Suppose you're writing away, and you get stuck. Do you need a comma here, or not? Does this sentence have a verb? Am I a bedbug? Well, just call up **Grammar Expert** and ask it. As a desk accessory, it gives you instant access to your third grade teacher. Just ask it, "Do I need a comma here?" It'll weigh things and say, "Billy, don't you remember last week's lesson about appositives?" Oh yeah. Appositives. Grammar Expert. Get it.

• **Grammar Expert - \$39**

Abbreviator!

With Abbreviator ST you can create your own custom shorthand language. Do you find yourself retying lengthy person or place names (and spelling them wrong), titles, or phrases? You need **Abbreviator ST**. You can make "demon" be your two-year-old son's name. Great for writers & programmers!

• **Abbreviator ST - \$19!**

WordPerfect The Feature Packed WP!

For the Atari ST

On Screen Columns
 Complete Printer Control
 Complete Desktop Shell
 Automatic Outlining
 Paragraph Numbering
 Border Boxes
 Supports over 200 printers
 PC Version 4.2 Compatible



Indexes and Table of Contents
 Automatic Intelligent Hyphenation
 115,000 Word Spelling Checker
 Synonym and Antonym Thesaurus
 Macro Feature lets you Save Macros to Disk
 Automatic Customizable Mail-Merge
 Built-In Math Capability - Works Like a Spreadsheet
 Complete Footnoting/Endnoting
 Complete Cut and Paste Capabilities
 Left, Right, and Center Justification

Word Perfect for the Atari ST/TT - Only \$149!

WPSwitch Means Power!

• WPSwitch will allow your ST software, namely WordPerfect 4.2 and Calamus, to read PC WordPerfect 5.1 files. How many times has it happened to you? Someone you're working on a project with hands you a disk, with his long-winded text on it, and says, "It's in WordPerfect 5.1 format. You can handle that, can't you?" You make funny mule noises under your breath, hoping that the person will go away so that you can be left alone to sit in a dark room for a few hours, so you can sort out this damned file. Even if you sort out their WP file, (or even if they saved it in a 4.2 compatible format, which is incidentally very hard to do), the file will still not be formatted correctly when you import it into your WP or Calamus. Now, WPSwitch will correctly convert from WP 5.1 to WP 4.2 or Calamus. No fuss, no muss.

NEW! WPSwitch, Version 1.1! - Only \$24!

SUDDENVIEW IS SUPERSONIC!

• Suddenview is one of the fastest text editors ever made for the Atari. And it's not your average text editor either. Some people say that it's like a paint program that uses text instead of colors. Its instant access system means that you can go to any part of your document at any time. Dynamic scrolling ties your mouse to your text; it makes scrolling through your text look as if it were in a high-speed microfilm reader. Its quick find feature starts looking for something, as you type it! It searches over 100K per second, so it's usually done looking before you're done typing! Its dynamic arrangement feature lets you cut a block of text and drag it, anywhere in your text, horizontally or vertically. Almost like a text-lasso feature! Suddenview runs as a desk accessory, so it's always ready for use, from any GEM program! It truly redefines text editing on the ST/TT. Get yours today!

SUDDENVIEW. THE SLICK EDITOR! - Only \$25!

Word Writer ST

• Word Writer ST is one of the most popular word processors ever made. Very simple, very reliable and best-selling. It's text-based, so it doesn't use GDOS. Printing is very quick. It supports bold, italics, light, superscript, subscript and a wide variety of printers. Doesn't allow inclusion of graphics, but supports most 9 and 24-pin dot matrix printers. Epson compatibility is a big plus. It will work with other printers (like the Atari lasers and Deskjet 500). Comes with a spelling checker. Word Writer ST has been our in-house WP of choice for many years. Great for students and personal letters. Requires only 512K and single sided drive.

Wordwriter ST - Only \$69

1st Word Plus

• First Word Plus is an update of the original First Word for the ST. This time they've included the ability to place graphics inside your documents! It's a simple word processor - quick and easy to use. Includes everything you'd expect it to include. Even a spellchecker! Doesn't use GDOS, so printing is fast and easy on all printers (Epson compatibility is a big plus). Great for beginners or those wanting to do simple documents with graphics. Latest version supports the TT030 as well as other modified-video systems. New version (3.2) is available now. Requires only 512K, but 1MB is really highly recommended.

1st Word Plus - Only \$69

• WordPerfect for the Atari ST brings complete word processing power to the ST world. I've always said that you have to be either neurotic or in real need of the extensive features WordPerfect offers to justify its purchase, but it's here all the same. Look at the extensive list of features. While it handles many of the same features as other word processors, goodies like a complete thesaurus, border boxes, automatic outlining as well as the 115,000 word spelling checker are really quite nice and unique, too.

Many people also, for better or worse, have come to equate the words "word perfect" with "perfect word processing." And while there are those who would hotly contest that conception (with good reason), WordPerfect has become a national obsession, to be met and not avoided.

WordPerfect on the ST, combined with the new WPSwitch utility, will allow ST compatibility with WordPerfect 5 on the IBM. WPSwitch will convert from PC WP5 files to Calamus, ST WordPerfect 4.2 or ASCII files. You'll find this very handy.

So now you're compatible with the rest of the world. Take WordPerfect files home from work - to work, or accept them from other people without worry. And even if WordPerfect isn't equal in its importance to the toaster oven, at least you're compatible.

Word Up!

• Word Up is a good, GDOS based word processor. There aren't too many of these left, but the people who like it like it a lot. You might too. Includes a few fonts as well as some mathematical symbols. Allows inclusion of IMG graphics in your documents. Output is great, and with the SLM804 or 605 laser printers, it's fast. Get TurboJet for use with the HP Deskjet.

- Word Up - Only \$59!
- TurboJet - Only \$29!

Calligrapher!

• Calligrapher, in a professional and light version, is a GDOS-based word processor, but it uses a proprietary GDOS font outline technology - so your text can be any size you like with high quality. It's very versatile. Their motto is, "From first perception to final print." It has extensive print preview features, so you don't have to wait for print results, and this ultimately makes for enhanced WYSIWYG function. The professional version includes a spelling checker. Comes with a very complete manual with lots of examples. Supports most dot-matrix printers, as well as the Atari laser printers. Requires 1MB and will not run on TT.

- WOW! Calligrapher Light - \$49!
- WOW! Calligrapher Gold - \$159!

Database Management!

(800) 448-8623 Orders

Cardfile 3!

• Gribnif's **Cardfile 3** is your personal information manager. It keeps track of personal & business addresses, phone numbers, important dates, appointments and more! It allows creation of an unlimited number of Rolodex style address books. It includes a complete phone book with autodialer – don't waste time with dialing the telephone! Its "filtering" feature makes it easy to find any address card in a flash. Specify "just the cards with last names beginning with T." "Grouping" controls keep groups of address cards together. There is a complete monthly calendar display, with an appointment listing (and reminders!) **Cardfile 3** will print out daily and weekly agenda lists. It will address envelopes and labels with any specified names. It will print out an address book and phone list. It can also type any address into your favorite word processor. This program is great for executives or for people running a small home business. What could be better than having a computerized secretarial helper? Since it's from Gribnif, you can expect excellent support, too. Also recommended as a beginner's database program.

• **Cardfile 3 – Only \$29!**

DataManager PRO!

• Do you need to **keep track** of people for your **community association**? Or your **chocolate-addiction** support group? Or do you need to organize your insect collection so you can find your **prized moth** without having to tear apart your entire basement? **Datamanager ST** might be just the program for you! It's simple to use, uses the **GEM interface**, and allows you to set up fields to track whatever type of information you happen to have – numeric **or** character data of any length. Includes relational operators. Define and play back commands. You can have up to 32,000 records per database. Prints **labels** or **reports** to your specification! Worth a look if you're in need of a data retrieval system!

Timeworks Datamanager Pro – Only \$89.95!

TRACKER / ST



• **Tracker ST** from **Step Ahead Software** is a simple, easy to use program for anyone who needs to maintain a **mailing list**, a club listing, or any other kind of list which involves people or organizations. Its simplicity is its biggest feature, because it means you don't have to spend time setting up complicated databases, indexes, and report formats. All you have to do is plug it in and you're ready to start keeping track of your group membership, your magazine subscriptions, or what the folks in your **illegal gambling pool** bet on. It now supports **WordFlair II** for creating mail-merged documents with your list of names from **Tracker**. It's also completely compatible with the new **Atari TT030** computer, and it comes with macro files for **Codekeys**, the macro program from **CodeHead Software**. Support is excellent – it's written by **Nevin Shalit**, who has gained much notoriety as the **PageStream** roundtable sysop on GENie, the president of the IAAD, and author of the "Rumor City" column in ST Informer. (See ad next page). If you admire simplicity and ease of use, as I do, I highly recommend **Tracker ST!**

• **COOL! Tracker ST! – A Steal At Only \$52.95!**

DB MAN: dBase Atari Style!

• Ashton-Tate's **dBASE** relational database program has become probably the most popular and widely used standard in the world. **dBASE** is available for the PC and Macintosh (and on other platforms, too). Because **dBASE** has been so popular, many other "clones" and variations, like Foxbase, and **DB MAN** have appeared.

DB MAN has been written for many platforms; among them, the **Atari ST**. It is an excellent, fast relational database, which just happens to be compatible with **dBASE III+**.

But with **DBMAN**, the great features of the Atari are supported – namely GEM. And it's faster than **dBASE**. An 8MHz ST running **DBMAN** would compare very favorably with a **16MHz** or 286 or 386 running **dBASE** on the PC.

It's not necessary for you to learn to "program" to use **DBMAN**, because it's easy to use plain English commands (like **EDIT**, **CREATE**, **APPEND**, **DISPLAY**, and **LIST**) allow you to get started quickly. It also has an automated report form generator. So creating fancy, formatted output from your database files

doesn't require several years of programming practice.

Here at **Toad Computers**, we use **DBMAN** for our whole business. Here's how we do it:

Our custom program is set up to handle taking orders, shipping orders, writing checks, keeping track of addresses, computing taxes, and also control inventory.

When you call to place an order, we get a bit of information from you which we look up in our customer database. The computer presents a list of people who match your specification, we pick the right one and instantly your customer number gives us access to your entire history with Toad Computers.

When we pay our bills, our automated checkwriting routine prints our suppliers a standardized check, and records the check in our account (and adjusts the account balance as well.)

When we do bulk mailings, we can specify exactly **who** we want to reach. For instance, we can pick the people we've talked to in the last year, people we met at shows,

people who phoned in inquiries, or people who live in California. We could send a mailing to our suppliers.

Our system records **everything** that happens. While the program doesn't have some built-in functions which answer more complex questions, because we're able to record everything in a compact, easily-accessible fashion, adding more features later is easy and retroactive.

While we do use **DBMAN** here, with our custom program, don't call wishing to buy our program. It's very customized, and like any proprietary programs has its quirks. If you have a specific application for a **DBMAN** based program, we suggest you buy it and write the program yourself. You'll find **dBASE III+** tutorials to be very helpful (and **DBMAN** is a lot like Pascal or 'C,' but not so technical).

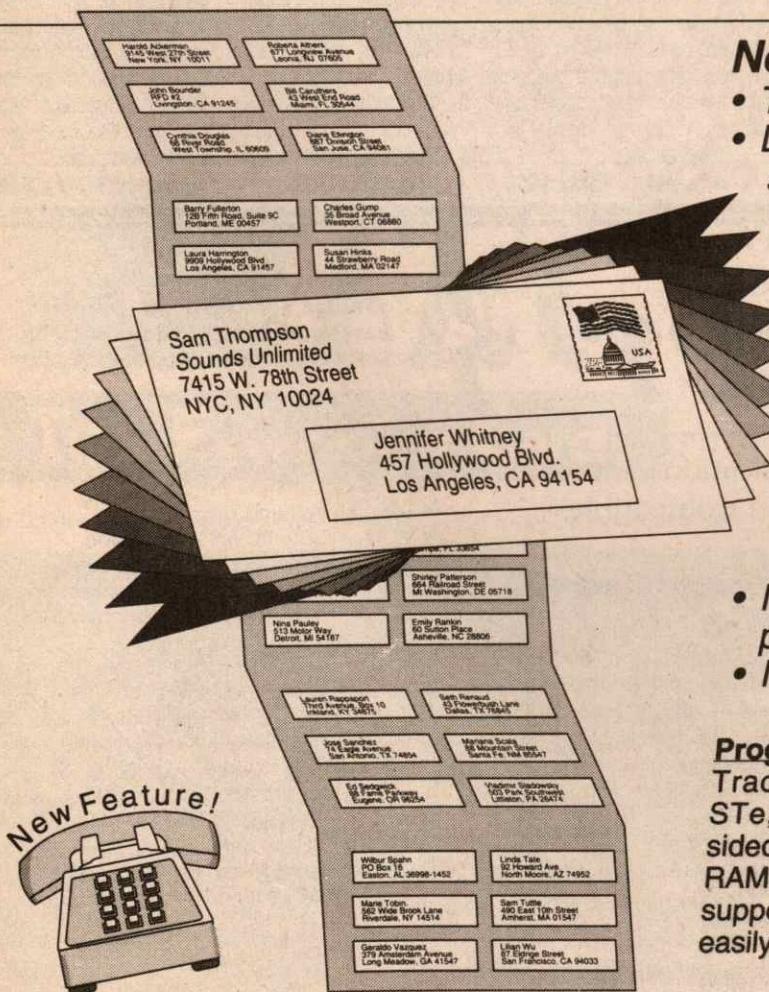
DBMAN fills a tremendous void for the Atari ST/TT computers. It provides the only fast totally programmable database! 1MB and hard drive recommended.

• **DBMAN v5.3 – \$154!**

TRACKER/ST

Powerful and Easy to Use Mailing List and Mail Merge Software

With thousands of satisfied users during its two years on the market, Tracker/ST has become the premier mailing list and mail merge program for the Atari ST, STe, and TT. And with good reason. Tracker/ST lets you store an unlimited number of names, in either one large file or as many separate files as you desire. Its unique Long Notes feature allows you to keep unlimited notes on each person in the Tracker system (great for taking notes during important phone conversations). Label printing is extremely flexible, with full support for dot matrix and laser printers (yes, it prints perfect labels to the Atari laser, HP DeskJet, and more). And its one-click mail merge system is a breeze to use. The top choice for small businesses, musicians, religious organizations, and others, Tracker/ST is the program you can trust for all of your mailing list needs.



New in Version 3.0:

- Telephone Dialing! (Modem required.)
- Duplicate name warning system prevents accidental duplicates in your files!
- Unlimited filtering capabilities for reports, labels, and mail merges!
- Instant copying of a name to a second database!
- Export names for use with other word processors (WordFlair II, WordPerfect, WordUp, etc)!
- New, simple installation program!
- Much, much more..!

Program Requirements:

Tracker/ST works on any Atari ST, STe, or TT with at least one double sided disk drive, and one megabyte of RAM. Color and monochrome monitors supported. Not copy protected; installs easily on your hard drive.

Modems

(800) 448-TOAD Love

Supra Quality, Supra Prices, and Now, Supra FAX Modems!

See Cables
Page 35!

Supra 2400

External Modem

The Supra 2400 is the modem that started the 2400 baud revolution in the U.S. This modem is great for just about every modem user and will work on any computer with an RS232C port. Heck - it's what I use most of the time, and it's also compatible with all other 2400 baud modems at 2400, 1200, 300 baud. Made in the USA! 5 Year Warranty!

- Supra 2400 - \$99

Supra 2400+

External Modem

The Supra 2400 Plus offers MNP Level 5 error correction which brings your data throughput up to a theoretical maximum of 9600 baud (when connected to another MNP level 5 modem). This modem is good for users demanding higher reliability and speed in their file transfers. If you don't download, though, don't get it!

- Supra 2400+ - \$149

SupraFAX V.32

External 9600 Baud FAX Modem

The SupraFAX V.32 modem allows for 9600 baud sending and receiving of faxes (with appropriate software) and 9600 baud data transmission when connected to a similar modem. The **Straight FAX!** software allows the ST (or TT) to send or receive faxes using this or the bis version modem. PC and Mac software is available, as well.

- SupraFAX V.32 - \$269

SupraFAX V.32bis

External 14400 Baud FAX Modem

The SupraFAX V.32bis modem squeezes out another 4800 baud! You can transmit or receive faxes or data at 14,400 baud! Of course, for 14,400 data transmission, you must be connected to a similar modem, but they're compatible with the rest of the world at 300, 1200 and 2400 baud! The fastest and best deal around **today!**

- SupraFAX V.32bis - \$329

Toad's Got the Modem Software that You WANT!



• **Stalker 3** is the newest terminal program for the ST. It functions as a desk accessory or as an executable program, and will handle background file transfers! Requires **STeno 2** (\$27) for type-ahead buffer. See the ad below!

- Stalker 3 - Only \$37!

• **Flash** is one of the oldest and most popular terminal programs. It's what I use most of the time. Supports background file transfers when **Shadow** (\$24) is used. Supports VT100 terminal emulation.

- Flash Classic - \$24!

• **Stealth** is another fairly new terminal program. Supports many new file transfer protocols. Works on the TT, too! Has limited scripting function. Very popular, and easy to use, too! Uses **Shadow**, too.

- Stealth! - Only \$29!

• **G.I.M.E. Terminal** and **BBS** are easy to use and set up. Uses the GEM interface for everything online. Get the terminal for calling out; get the BBS to have people call in. Again, both are excellent.

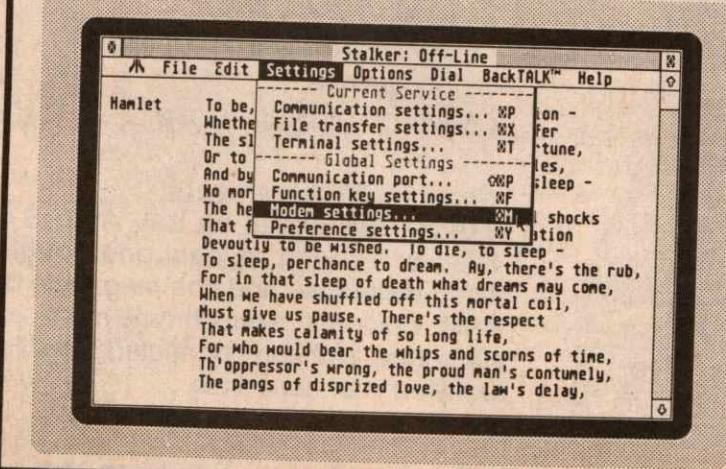
- GIME Terminal - \$29
- GIME BBS - \$59

• **Straight Fax!** is the answer to the Atari fax question. Allows full send and receive capability from many popular applications. Excellent user interface. Works with most FAX modems. See the ad, next page.

- Straight FAX! - \$69!

STalkerTM 3

GEM Based Telecommunications Software
for the Atari ST/TT and Compatibles



STalker 3 is the most complete, easy to use, telecommunications software for your Atari!

Features Include:

- Runs in a GEM window, as a desk accessory or GEM program
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- Advanced **BackTALK** scripting language
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All this and more for under \$50!
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Get the **Straight FAX!**

For your Atari ST/TT Computer

- Send/Receive FAXes with an Atari ST/TT Computer using any standard Class 2 FAX Modem to/from a Group III FAX machine at speeds of up to 14400 baud.
- Supports sending of ASCII Text files, Image Files, DEGAS™ Files, or FAX files created by included printer drivers for Calamus™, PageStream™ and FSM GDOS™.
- Supports printing of received FAX files using standard FSM GDOS™ printer drivers.
- 100 Number Dialing List, Send and Receive FAX Logs, Automatic Cover Page Generation, Broadcast FAX to multiple destinations, Scheduled FAX transmissions.
- View up to Four FAX pages at a time with crop editing capability.
- Full GEM User Interface with keyboard commands for Menu and Button Selection, Pop up Menus and On-line context sensitive Help.
- Direct Scanning of FAXes using popular Hand Scanners.
- 1 Mb of RAM required. 2 Mb of RAM and Hard Drive recommended.

by Joppa Software Development

\$89.95 US retail

TEC

Tos Extension Card

"The TEC has given my computer a new lease on life ... it's a 'must-have' for any ST owner!" — Ron Luks, Founding Sysop of the Atari Forums on Compuserve

CodeHead Technologies is proud to announce the TOS Extension Card! This amazing device lets you install the very latest version of Atari TOS (2.06) in your 520ST, 1040ST, or Mega ST!

That's right! Now, you can have the same excellent system software that owners of Mega STes and TT030s are enjoying, without spending megabucks for a whole new computer system.

TOS 2.06 includes a totally redesigned GEM desktop that has most of the features of the popular alternative desktop programs, but with two big advantages: it doesn't gobble up large chunks of memory, and because it's in ROM it takes no time to load from disk!

The TEC fits in any model of ST computer, regardless of design, and it works with existing upgrades like MS-DOS emulators or hardware accelerators.

Upgrade your
520ST, 1040ST,
Mega ST, or Stacy
to Atari's new
TOS 2.06!

There's even a "switch" option that lets you return to your older TOS at any time. And the low price of \$139 includes the official Atari ROM chips!

Step into the future of Atari computing — order your TEC today!

CodeHead TECHNOLOGIES



PO Box 74090 LA, CA 90004 213-386-5735 Fax 213-386-5789

ST RAM Upgrades

(410) 544-1329 FAX Recipe Hotline

TOAD'S UPGRADE PICKS!

THE JRI SIMM BOARD - NOW TOAD'S FAVORITE!

The JRI SIMM Board is a tough and reliable upgrade. It's best for the technically inclined who don't mind soldering. Once installed, it's very reliable and easy to upgrade later. Allows installation of up to four SIMMs (Single In-Line Memory Modules), which is a maximum of four megabytes. If you're not comfortable with soldering, we do recommend that you have us install it, which costs \$39. For a 520, you'll need two 256K SIMMs to go to 1MB. For a 520 or 1040, you'll need 2 1MB SIMMs to go to 2.5MB, and 4 1MB SIMMs to go to 4MB. For a Mega 2, you'll need 2 1MB SIMMS to go to 4MB. Call for more information.

JRI SIMM Board - Only \$109! 4MB Version - \$289 2MB Version - \$199

THE ZUBAIR Z-RAM: DO IT YOURSELF!

The Zubair Z-RAM boards have always been popular, and we've sold tons of them. They are solderless RAM upgrades, but a word of warning: have this board installed by an electronics professional. If it's installed incorrectly, it can quickly stop being solderless, screw up your MMU, and make your life miserable. And Z-RAM's won't work with certain brands and species of RAM chips, so we're not selling it without the appropriate RAM. Get the 2MB version for 2.5MB total, and the 4MB for 4MB total.

Zubair Z-RAM 3D, 2MB Version - \$189 4MB Version - \$299

RAW RAM

Sixteen 1Mbit RAM Chips (2 MB)	\$109.95
Sixteen 256Kbit RAM Chips (512K)	\$29
1MB SIMMS	\$41 ea!
4MB SIMMS	\$139 ea!
256KB SIMMS	\$7.98 ea!

SUCH A
BARGAIN!

RAM UPGRADES: You Don't Have to If You Don't Want To!

A Scat By Dave Troy

It used to be that RAM upgrades were the best way to get a more powerful ST. Now, things aren't so clear cut. With a jillion enhancements and upgrades available to throw in your ST, a RAM upgrade is sometimes just the thing to throw your ST over the edge. You might consider some other alternatives.

Many popular ST RAM upgrades say they're "solderless," but with over six years experience dealing with ST RAM upgrades, I can tell you that most of them are never solderless or don't stay that way for long. Many of the more popular RAM upgrades, like the EZ-RAM and Z-RAM, have, over the years, lead to a shortage of "original" style memory management unit (MMU) chips, because these upgrades often won't work with Atari's newer MMU's. And many users have damaged their existing MMU IC's with the upgrades, thus needing replacements. And we find now that the C025912-38 MMU supply is drying up fast, and prices are going way up. Not only are these problems plaguing upgrades, but the nightmare gets worse: some upgrades won't work with certain brands of RAM chips. So, we're now recommending the JRI SIMM board. Granted, most people have had fine success, most of the time, with these other upgrades, but we feel it's time to do something positive to correct the MMU shortage and make sure everyone has good success.

The JRI board has lots of advantages. First, it doesn't take too long to install. Even though it does involve soldering, it usually works on the first try, and doesn't require the intensive debugging that some of the other upgrades did. This saves us time when we're doing our installations, and it will save our technically-inclined customers time, long distance charges, and sanity, too. The JRI boards work with all MMU chips. And the risk of damaging existing, functional MMU chips is practically nonexistent. This will help save MMU's for folks that need them!

You should also note that if you have more than one other hardware upgrade installed in a 1985-1986 vintage 520 or 1040, a RAM upgrade could possibly be the straw that breaks its back. Though power requirements are not usually an issue, in the older machines, the supplies are aging and overloading the power supply as well as overloading the machine's bus are issues to be considered. And the cost of a RAM upgrade - usually between \$150 and \$300 - should be carefully weighed against the cost of a new machine, like an STE, Mega STE, or TT, which start as low as \$339!

A new machine may very well incorporate upgrades you've installed in your existing ST. All new machines can be bought from us, with your desired amount of RAM already reliably installed, and with an extended warranty to back it up. For instance, a 520STfm with an AdSpeed and a 4MB Z-RAM board could be easily duplicated in a Mega STE 4, and all your upgrades would be installed in one, integrated unit (and I'm not even mentioning the hard disk!).

You can give your old machine to your nephew, Mortimer, who's nine and would love a computer for games and school! Or, you could sell it to some sucker you know. This philosophy means that more ST computers will be in the world, in the hands of people who will buy more software, buy more magazines, talk to more people about Atari computers, and ultimately buy more hardware too! That can only be good for you, and it's not bad for your friend, relative, or sucker either! They get a computer out of it!

A RAM upgrade may still be the best way for you to go. I just thought I'd bring up a point that many of you have already discovered: two reliable computers are better than one that's flaky!

ICD AdSpeed!

The ICD AdSpeed ST 16 MHz is a great way to literally double the speed of many of your computer's operations. Improves **screen redraw times** and **math operation speeds**. Great for something like **Ultrascript** which is **math intensive**. Can be switched back to **eight MHz** with a hardware switch or **software** desk accessory. Requires **desoldering** and replacement of 68000 CPU. Installation is difficult, and we recommend you have us do it, which is \$49 for most machines. Works



with 520ST, 520/1040STf/fm, and **Stacy** computers. STE version is simple to install at home.

- **ICD AdSpeed – \$199!**
- **ICD AdSpeed STE – \$229!**

High Density Floppies!

Now, thanks to our elegant Toad-Density high density floppy drive upgrade, you can read and write PC compatible 1.44MB disks on any ST. The Toad-Density consists of a replacement drive controller and appropriate software. Works on 520ST, 520/1040/STf/STfm, Stacy, and STE computers. Installation **may** require desoldering and replacing your 1772 drive controller chip, as well as modification of the computer's case. (Toad-Density will not work with other drive mechanism brands, so the upgrade kit is not available without the drive mechanism.)

TOAD-DENSITY UPGRADE – \$169

(Includes Drive Mechanism. We will install complete kit for \$39.)

Upgrade Your Keyboard!

Make your ST keyboard less mushy with the installation of the **Megatouch** keyboard springs. They give better key definition – and the price is right! If you've got kids, early morning computer coffee – or cats – you might want to think about **Keyskins**. They provide a thin but durable plastic coating for the keyboard which will endure a wide variety of liquid spills. With our **MegaMater** you can hook up the high quality Mega STE keyboard to a 520 or 1040ST externally. Do you have a Mega ST keyboard but would like to improve its quality further? Try the **MegaClick** replacement key switches! Installation requires a complete reinstallation of switches in the keyboard, but when you're done you have a keyboard of the highest quality – with responsive switches that give positive feedback, so that you *know* you've pressed the right keys! You might also consider **Z-Keys**, an internal upgrade (with driver software), and **D.E.K.A.** (requires no software), an external upgrade, which will both allow you to attach IBM PC standard keyboards to your ST. We've found these all to be very popular upgrades, and we're certain you'll like them too!

MegaTouch Spring Kit	\$11
KeySkins (520/1040/Mega/TT)	\$21
MegaMater Kit (Specify 520/1040)	\$16
Mega STE Keyboard (Whole)	\$139
MegaClick Key Switches	\$59
Z-Keys (Internal PC Adapter)	\$89
D.E.K.A. (External PC Adapter)	\$89
Mega ST Extension Cable (7'25')	\$14/\$20

TOS Extension Card = 2.06!

The TOS, the ST's built-in operating system, started at version 1.0 in the 520 and 1040ST. Version **1.4**, released in 1989, had many enhancements, including an improved file selector routine, much faster hard disk access, and general system speed improvements. In the TT030 and Mega STE, Atari included another enhancement in TOS: a completely reworked desktop! It allows program and folder icons to be placed on the desktop, assigning of all desktop functions to keystrokes, assigning programs to function keys, multiple-colored icons, multiple-colored windows, and many, many other new features. Atari has licensed TOS 2.06 so that it may be installed into older ST's, in fact every ST ever made! There are three versions of the board required to make this installation, Codehead's TOS Extension Card (TEC).

• TEC Standard Version: Requires soldering of about twenty wires.	\$139
• TEC CPU Bridge Version: Requires a socketed 68000.	\$149
• TEC Mega Bus Version: Requires Mega ST, but requires no soldering.	\$149
• TEC Board Installation: However you want it.	\$39
• TOS 1.4 6 Chip Set: Requires No Soldering. (520 & 1040 ST's)	\$59
• TOS 1.4 2 Chip Set: Requires No Soldering. (Mega ST Machines)	\$59
• TOS 1.4 Installation:	Free

Uncertain about which version of TOS to buy? Uncertain about what version you already own? Call us! We can answer your questions. Hard drive owners should definitely upgrade to at least TOS 1.4. Ask about our icon editor, too! Just \$27!

68030's Burst Into ST!

The SST 68030 Upgrade Board from Gadgets By Small is an affordable way to bring Motorola's **68030** technology to your existing ST. With a price of **only \$579**, buying the necessary 68030 processor and RAM are all the choices you have to make, and that gets you a super high performance machine (i.e. up to many hundred times faster)!

Works best with Mega ST machines, but with special installation, it will work with any 520ST or 1040ST at either **16, 33 or 46MHz**. We'll be offering cases designed specifically to allow the 520/1040 STs to work with the SST – and we'll be the **official** installation center for this product.

• SST 68030 Board	\$579
• 33MHz XC68030/882 Pair	\$349
• 46MHz MC68030/882 Pair	Call
• 16MHz MC68030/882 Pair	Call
• 1MB SIMMs (Each)	\$41

See the "Gadgets by Small" page, page 42, for more information on this great product. The SST is shipping now and initial results show the SST to be the absolute best Atari 68030 product. Dave Small's custom compatibility software insures that many of your old ST programs which otherwise wouldn't work will work with the SST. Future SST expansions include the Chromax custom programmable video card as well as an SST STE version. Mix in this great hardware with ours and Gadgets' legendary product support, and you can't go wrong. Call today!

ST Clocks!

Annoyed because your ST doesn't have a built in clock and all your files are dated November 1985? A lot of people were. But not now. Not with these high quality clock chips! The **Alpha Data Cartridge Clock** is an easy to handle cartridge with a passthrough for other cartridges! The **ST/TIME** is an easy internal upgrade for the ST or STE! Both are reasonably priced and will make your life and times easier!

Alfa Data Cartridge Clock – Just \$49!
ST/Time (Internal) – Only \$49!

ST Upgrade Software

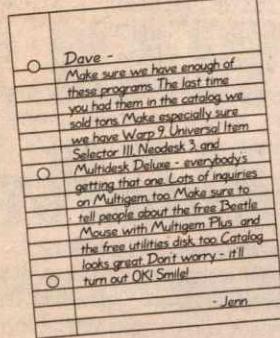
(410) 544-6943 Be The 9th Caller!

Toad's Favorite Ways To Improve Your ST!

NEW! ➔ WARP 9, from Codehead Software, is the latest version of the terrific system speed enhancer **Quick ST 3**, begun by Branch Only Software. This version is even faster and more compatible than ever before. Makes screen redraws fly. **\$39!**

➔ UNIVERSAL ITEM SELECTOR III replaces the standard item selector in TOS with a luxury version that includes a high power file management utility. Will be called from any GEM based program. New version 3.32. Definitely a must have for any serious ST/TT user.

\$22



There's
More
Upgrade
Software
On The
Next Page!



➔ NEODESK 3, from Gribnif Software, has become a standard in the ST world. (See ad below.) Completely replaces the standard GEM desktop with a new, high power, fun-to-use environment, complete with custom icons (for files, folders, and devices) and powerful utilities. **\$49!**

➔ NEODESK CLI brings a command line interpreter (in a window) to the ST. Very powerful and useful for file functions. Accepts DOS or UNIX style commands. **\$19**

➔ MULTIDESK DELUXE has become a major hit of this year. *Multidesk* means you can have access to an unlimited number of desk accessories (not just six). And the *Deluxe* means that you can create "sets" of desk accessories for use with certain programs. So when you're desktop publishing, only the DTP accessories are in use. When you're working on taxes, only your math accessories are in use. *Automatically*. Definitely worth every penny. Buy it **today!** **Only \$39**

➔ CODEKEYS is a full macro recorder. Records mouse movements, too. Great for automation & reducing typing. **Only \$29**

NEW! ➔ XBOOT from Gribnif Software is a totally GEM based boot manager. Control order and execution of auto folder programs, desk accessories, and even start up GEM programs automatically. Also controls .INF files and GDOS "ASSIGN.SYS" files for various programs. Very powerful and worthwhile. **\$39!**

➔ HOTWIRE PLUS, from Codehead, is great! Want to get around to your favorite programs without using the mouse? Assign all your most used programs to keyboard equivalents and **FLY** through your work! Includes Maxifile file management utility. A must-have for impatient folks. **\$46**

➔ MULTIGEM PLUS, from Rimik, allows you to use multiple GEM programs at one time. Want to run LDW Power and Pagestream at once? No problem. Multigem Plus comes with a free Beetle Mouse and Utilities Disk - over \$65 value, free! **\$119**

➔ DC SHOWER, (that's show-er, not a wet vertical bath), will let you view most file types from the desktop (including graphics). Replacing the normal GEM shower, it's seamless to use. **\$24**

NeoDesk 3

The Ultimate Desktop

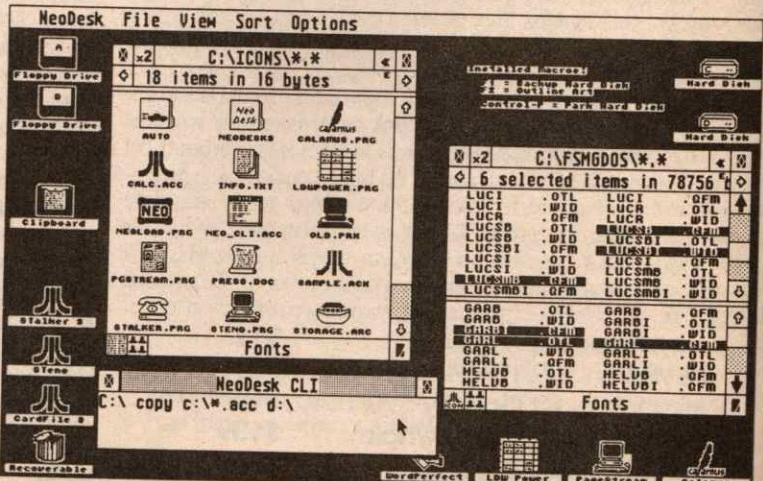
NeoDesk 3 is the complete desktop replacement for the Atari ST(E) and TT. Its advanced and intuitive interface is like nothing else available on the Atari.

NeoDesk was the first to bring you: *Custom Icons*, *Desktop Icons*, *Desktop Pictures*, *Keyboard Equivalents*, *File Templates*, *Hot Keys*, and much more!

NeoDesk also has many other features that go beyond anything else available: *Split Windows*, *Desktop Notes*, *Icon Editor*, *Macros*, *Active Icons*, *File Clipboard*, *Recoverable Trashcan*, and ultra-efficient file copying!

You can also add a command line interpreter (CLI) and even the capability to access *NeoDesk* inside any GEM program!

Try out *NeoDesk* today, and discover what has made it a best selling utility for two years straight!



To order direct call:

1-800-284-4742

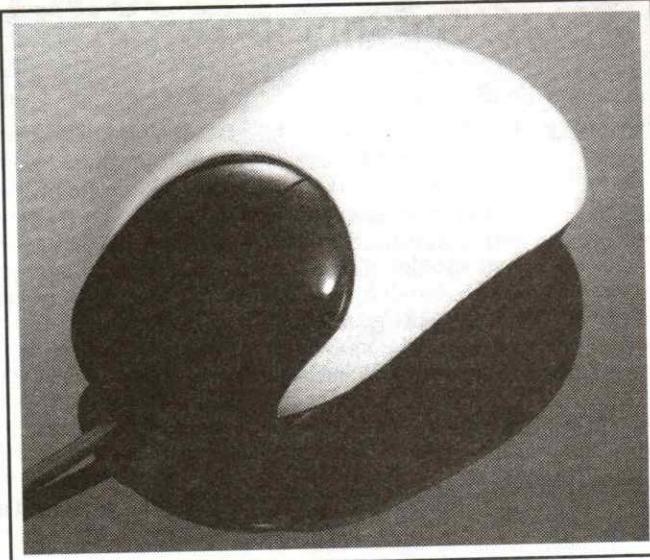
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RIMIK ENTERPRISES

New Idea Electronic's Beetle Mouse, Fast, Accurate, Colorful and Fun!

The Beetle Mouse is an ultra fast and highly accurate mouse that is ergonomically designed to fit your hand. Its light weight allows you to effortlessly glide it across any mouse pad. The Beetle Mouse has a special curve that allows your hand to rest comfortably on the mouse. There are 2-large buttons at the front of the mouse that use high-grade commercial switches. At the base of the Beetle Mouse there is an indented waist that allows you to firmly grip the mouse during movement. The Beetle Mouse also has a resolution of 320 dpi which allows you use a smaller work space on your desk. Our mouse is 100% compatible with your Atari ST, STE or TT. The Beetle Mouse even includes a free mouse pad and is backed by a one year warranty. The Beetle Mouse has been featured on CNN Future Watch, PC Magazine and others. There are 15 different color combinations available, please contact a Rimik sales representative for more information.



Only \$49.95



DTPaint, Finally a Graphic Editor that runs as a Desk Accessory!

DTPaint is a POWER PACKED graphic editor that has the tools that professionals need to created and edit their graphic artwork. "MAC" like features such as "LASO" and "JACK-KNIFE" make cutting out those hard to get pieces of clip art a breeze. DTPaint has all the basic tools and many advanced tools like; Bezier Curves, Jack Knife, Lasso, Pie, Polygon and more. DTPaint Supports IMG, Degas, Degas Elite, Mac Paint and Monochrome PCX picture files.

Because DTPaint runs as a Desk Accessory, you can use it while your running other programs. DTPaint works great with Desk Top Publishing programs like Calamus, PageStream, Fleet Street Publisher, Time Works Publisher and many more. DTPaint will allow you to edit graphic files without leaving your DTP program. If you need a very powerful and easy to use graphic editor, you need DTPaint.

Requires a Monochrome Monitor

Only \$49.95

Working Model of DTPaint for only \$4.95

If you would like to see what DTPaint is all about why not take a test drive? We can send you a working model of DTPaint, with only the Save feature disabled. Just call and order a copy, we will even pay for the cost of freight!



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FREE 2nd Day Air Shipping!
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ST Power Software

(410) 544-6943 Extra Value Meals

CODEHEAD

► We've already mentioned some of Codehead's best products (page 26). But there are many more! Check these out.

CODEHEAD UTILITIES – A grab-bag of powerful utilities. Includes Multifile, a powerful file management utility. Also includes an Auto folder organizer, Font Tricks system font replacer, a powerful ramdisk and print spooler, Codecopy multiple disk copier, Zerodisk fast disk formatter, Arcshell ARC manager, Showmem3, and Desk Manager boot manager. Also includes latest Little Green File Selector. This package is great for any ST user who wants to increase the power of his whole machine. **Only \$24!**

MAXIFILE 3 – Manage your files more effectively. Now you never have to leave your favorite programs to do mundane stuff like copy, rename, or delete files. Also formats disks, shows free space on disks with either numerical report or easy to read bar graph. Handy tool. **Only \$24!**

G+PLUS – Pronounced simply "G Plus." It's a complete replacement for Atari's GDOS. This program came onto the scene in 1989, and has become the defacto standard of many GDOS users. Features include faster operation and the ability to assign specific "ASSIGN.SYS" files to specific GDOS applications. **Only \$24!**

LOOKIT & POPIT – LOOK-IT is a very powerful ASCII and binary file editor. But it's kinda cool – it will allow you to edit up to thirty-two files at once (and cut and paste between them.) And remember, it's a binary file editor, too, so you can edit machine code or other funky formats in either ASCII or hexadecimal. Very powerful. Then there's POP-IT. It has a single purpose, but it's one you'll find very useful. With POP-IT, you can assign each of your desk accessories a "hot-key." So if you use a snapshot utility frequently, attach it to F1. Don't miss the power of this combo. **\$24!**

MIDI SPY – Are you a habitual keyboardist? Constantly spitting out endless strands of melody and counterpoint? But your memory for such beauty is rather evanescent? Play a virtual serenade and when you go to play it later, all you can think of is the theme song to Mr. Ed? Midi Spy will cure all that. Midi Spy keeps constant watch on the output of your Midi keyboard, and records it in your computer's memory. Just go into Midi Spy and press the space bar, and poof, your piece is gorgeously recounted before your eyes. Don't lose another great tune. **Only \$29!**

DOUBLE CLICK DRAGONWARE

► See page 26 for DC Shower, Double-Click's handy file viewer. Here are some more of these guys' great creations.

DC DATA DIET – Proven to be a very popular program. Akin to "Stacker" on PC platforms. Basically, to make a long story short, Data Diet makes a long story short. Data Diet will perform real time compression and uncompression of your files whether they're programs or data. So when you go to write a file to your hard disk, Data Diet intercepts it, compresses it, and then writes it. When you have to read the same file back again, it reads the compressed version and uncompresses it before handing it back to GEM. So what this means is that Data Diet can **double the effective capacity of your hard disk**. While it does take some extra time, if space is at a premium in your system, get Data Diet and trim away the fat in your files. **Only \$47!**

DC UTILITIES 2.0 – DC Extract Plus allows you to create and extract ARC, LZH, ZIP, and ZOO archives, with an easy GEM interface. Now you can access your archived files without remembering a list of cryptic commands! DC Squish's self-extracting archiver compresses executable files better than ARC, **and** they're still executable – from the desktop! **Only \$29!**

DC DESKTOP – A replacement desktop for the ST. Place programs and folders right on the desktop. Display unique file, folder, and drive icons. Display Neochrome, Degas and Spectrum pictures. Store frequently used programs and files in exclusive "cabinet." View files from desktop with enhanced "show" routine with mouse control! Replace desktop with pattern or picture. Recover files from trash quickly and easily! Spool or queue printing. Works in all resolutions on ST or TT. Access all desktop functions with keystrokes, too. Very versatile. Give it a try. **Only \$29!**

► Dragonware's new **G-Man** is a powerful tool for users of GDOS.

G-MAN! – **G-Man** will make any GDOS user's life easier. Sick to death of writing ASSIGN.SYS files, worrying about fonts, wondering about incompatibilities and having things crash? **G-Man** is a five-in-one utility designed to help end your GDOS woes. It will automatically create ASSIGN.SYS files, rename up to 200 fonts at once, check font integrity with three powerful tests, and create screen-font only ASSIGN.SYS files. That's right! No text editor is necessary to create ASSIGN.SYS files. Includes tutorial and helpful manual. A must for GDOS based DTP. **Only \$24!**

LANGUAGES

GFA BASIC – Most popular and easy-to-learn programming language for the ST. Includes access to GEM functions. Includes interpreter and compiler for creating stand-alone programs. (TT Compatible) **Only \$99!**

HYPERTLINK – Mac Hypercard style hypermedia application generator. Can be programmed to do anything from expert systems to animation. **Just \$109**

ESTEEM PILOT – The original Pilot language with ST enhancements including CD-ROM support. **Only \$69!**

HISOFT POWER BASIC – Atari's recommended BASIC programming language. Microsoft compatible. **Only \$59!**

LASER C – ST standard 'C' language creates very fast and compact code. Preferred for many years. **Only \$99!**

MARK WILLIAMS C – Compiler manual considered one of the best ST 'C' programming guides. **Only \$99!**

LATTICE C v.5 – As close as you can get to ANSI 'C' on the ST. Multi-pass compiler produces fast code. **Only \$189!**

PERSONAL PASCAL – Longtime ST Pascal favorite. From ICD & OSS. **Only \$79!**

HI-SPEED PASCAL – Turbo Pascal compatible implementation. **Only \$139!**

DEVpac ST & TT – Great assembly language package from HiSoft. **Call**

EDHAK – Great handy editor. Edits memory or files. Desk accessory. **Only \$21!**

PROSPERO C, FORTRAN, OR PASCAL DEVELOPER'S TOOLKIT **Only \$99!**
DEVELOPER'S TOOLKIT **Only \$59!**

FTL MODULA 2 – Complete Modula 2 compiler. *Developer ver. avail.* **Only \$99!**



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Atari Interface Magazine – Published monthly. Full-color glossy cover. Product reviews & columns. **\$2.95**

Current Notes – Ten issues per year. Full-color glossy cover. Product reviews and columns. 84 pages per issue. **\$3.95**

ST Informer – Published monthly. Full-color newsprint magazine. Product reviews and columns. **\$3.00**

Atari User – Published monthly. Full-color newsprint magazine. Product reviews, news and reports. **\$1.50**

Atari Explorer – Seven issues per year. Full color glossy throughout. Official journal of Atari Corporation. Product reviews, news, and reports. **\$2.95**

Atari Advantage – New magazine from former ST Informer staff. First issue to be printed shortly. **TBA**

Add a magazine to your order! Find out what's going on in the world!

FOREIGN

ST Format – Published monthly. Comes with disk. Productivity & games. British. Full color glossy. 180 p. **\$9.95**

Atari ST User – Published monthly. Comes with disk. Productivity & games. British. Full color glossy. 140 p. **\$9.95**

ST Action – Published monthly. Comes with one or two disks. Game based. British. Full color glossy. 98 p. **\$9.95**

The One for ST Games – Published monthly. Comes with disks. Game oriented. British. Full color glossy. Includes supplements. **\$9.95**

ST Applications – All productivity and utilities. British. Two color. Very insightful product reviews. 60 p. **\$8.95**

England is producing an incredible quantity of ST related publications. All are full color & glossy. Some products advertised may not be available in this country, but make for good reading.

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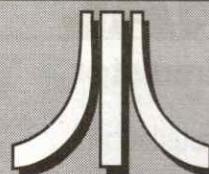
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PC Emulators

(410) 544-6943 Music Critics

PC Emulators Do a Tough Job

A Scat By Dave Troy

► I have always believed that trying to get an Atari ST to run PC-compatible software is like trying to get discount airfare for fish. The ST smoothly and quickly runs Macintosh software (with Spectre GCR), somewhat better than a Mac can itself, because the ST runs on much of the same hardware – including the processor. But it's a different story for emulating a PC.

PC's run on completely different processors, so when you buy a PC emulator, you're essentially buying a complete "computer" to plug inside, or outside, your ST. This is not a very sexy design, but it works.

For the most part, I suggest that folks get by without a PC emulator. You'll find that almost anything you could do with a PC emulator, you could do with ST-native software. While there are certainly some

obscure functions for which the ST has no software, I think you'll find that with a bit of research the ST can do anything a PC can do, and with ST software it will usually be faster and easier to use.

Even before I actually recommend a PC emulator, I recommend that folks buy an actual PC. Frequently, for just a little more than the price of a PC emulator, you can have a complete PC setup, with card slots and real video capability.

That's not to say that people should ditch their ST machine; folks need to realize that there are some functions will be better suited to a particular computer. And when space permits, having two computer setups is very worthwhile. Let's face it, guys, computers just aren't a religious thing, and prices are now such that you can have more than one. Consider the Atari 386SX or

386DX machines. They're high power, low cost machines, and you'll find that having two computers will mean that you've got "multitasking." (Grin.)

Finally, if you're not trying to run games or other graphics-intensive software (that means windows), any one of these emulators will do fine for you. These emulators are best suited for DOS applications which don't require a lot of memory or any hardware to run.

As far as which emulator to get, we've laid out the choices fairly succinctly below. Some run like PC XT's on 8086 processors, some run like AT's on 80286 processors. There will be a VME card-slot based 80386 emulator for the Mega STE soon, but we don't have it yet. So these are the choices that are available, and if you're certain you need a PC emulator, we've got 'em.

EXTERNAL

Supercharger PCXT Emulator

DISADVANTAGES

- Doesn't do sound
- Takes up one DMA Slot
- Runs at 4.77 MHz
- Only supports 4 Color CGA graphics

ADVANTAGES

- Easy to start using. Just plug in and go. Requires no modifications to computer.
- Allows "multitasking" between ST & PC.
- Switch between ST & PC mode on the fly and use Supercharger's RAM as a RAMdisk in ST mode.
- Comes with 1MB RAM.
- Allows for future 286 & 386 upgrades
- Allows graphics board upgrades in future
- Doesn't need a PHd to use

Only \$399!

INTERNAL

AT Speed C-16 Emulator

DISADVANTAGES

- Requires solder-in installation
- Internal installations may stress your machine out

ADVANTAGES

- Doesn't take up any more space
- Supports 16 Color CGA
- Supports VGA Monochrome
- Runs on many machines
- Runs at 16MHz! Same as an AT!

Only \$379

PC-Speed Emulator

DISADVANTAGES

- Requires solder-in installation
- Internal installations may stress your machine out
- Runs only at 4.77MHz

ADVANTAGES

- Doesn't take up any more space
- It's Cheap!

Only \$179!

PC Speed STE Version Same Price. Specify.

Neither!

► PC Ditto is the original PC emulator for the ST, and the cool thing about it is that it's totally software based. The bad thing about it is that it's slow. But if there's some piece of software you do want to run, you can do it without spending an arm and a leg!

It's \$79!

TC POWER
EXPANDED MEMORY MANAGER
NOW ONLY \$39 FOR ANY EMULATOR!

Fixing Your Computer: Top 5 Hits! (Literally)

A Scat By
Dave Troy

The ST Computers are pretty reliable in general. Most machines go for years at a time with no problems. But if your machine has a problem, you're not the first to have had it; there are certain problems which are particularly pervasive. I've compiled a list of the most common ST problems and given hints as to what might cause them. Most people will find that their problem falls into one of these categories.

Atari 520ST (External Disk Drive) – The most frequent problem with 520ST's is that the chips get loose, causing an assortment of problems. The most common one is the inability to read disks properly, which makes the user to believe that all of his disks are blank, which is bad. If you turn on your machine, double click on the "A" drive icon and the window reads "0 bytes in 0 files," then you have this problem. To cure this problem (and this method is worth a shot for just about any problem),

lift the left side of the machine about six inches above a hard surface and drop it. Do this up to five times, if necessary. If things still don't clear up, then call us. If your problem was cured, then your machine needs to be taken apart and have its chips reseated and the machine cleaned. This should clear up all problems for a good while.

Atari 1040ST/520STfm/Mega ST – The power supplies in these machines go bad frequently and require replacement. You have two options. The first is to send us your old power supply and \$55 and we'll exchange it for a new Atari supply. Best Electronics makes a good replacement supply, too, (which is less likely to go bad), and we sell it for \$69. Call for more information.

ST Printer Troubles – The ST uses the Yamaha YM2149 sound chip to control its parallel printer port. (It is a chip with eight

data lines that happened to be free.) When your printer goes bad, some or all of your sound chip has probably gone bad. A Yamaha YM2149 costs \$16, and we can install it if necessary. Call for more information.

ST Monitors – Many of the SC1224's and SM124's floating around these days are dying of natural causes, and not usually the same ones. Usually, tracking down the problem is more time consuming than it's worth; and when you do find the problem, the parts are often unavailable. Atari has an exchange policy: \$149 for SM124's (to go to the new SM147), \$239 for SC1224's (to go to the SC1435). We recommend it. Call for more information.

Well, those are the most common repairs that we do. If you find yourself in need of any repair work, common or uncommon, please give us a call. Call Ray – he loves repairs!

ST Spare Parts

There are several ST parts which are always in high demand (many of which have been mentioned above), so we're listing them here. As always, you can order the spare parts and install them yourself or have us do it!

ST MMU Chip	CO25912-38 (Old Style)	\$49
ST Glue Chip	CO25915	\$35
ST Sound Chip	YM2149	\$16
ST DMA Chip	CO25913	\$35
ST Video Shifter	CO25914	\$35
ST MFP Chip	MC68901	\$17
520ST Power Supply		\$69
"The Best" Power Supply (1040ST/520STFM)		\$69
A-POWER Heavy Duty Power Supply		\$99

Sending Equipment for Repair

Every once in a while we get a piece of equipment in for repair which is really indecipherable. There'll be arrows drawn on the box that point plaintively at the floppy drive, with little unhappy faces drawn nearby. On the top, the box will have a magic marker scrawl: **Owner: Bob**. We'll have no clue where this came from, except for the UPS shipper number stamp on the top, and the most you get from that is *zone six* which really narrows the location down to somewhere in the central U.S. Bob called us sometime a few weeks before, and because we're swell, figured we'd remember that he would in fact send his computer in if his wife really did go on vacation during May. And he thought we'd remember that his ST had a memory problem only when aircraft manufactured by Boeing flies overhead within 30,000 feet. What we ask for is a note, that lets us know why your piece of equipment is visiting us, where to send it when it's done and how you want to pay for it. As long as you do this, we'll be happy. Just send things to our normal store address, but remember, **send it with a note!** Please call before sending us any repair, just to make sure it's something we can do.

Complete Exchanges

IF you own a broken 520ST, 520STfm, or 1040ST:
Send It In, With \$250 (512K), \$275 (1MB) to Get a Replacement Equivalent STE Machine.

IF you own a broken SM124:
Send It In, With \$149, to Get a Replacement, New, SM147 Monochrome Monitor.

IF you own a broken SC1224:
Send It In, With \$239, to Get a Replacement, New, SC1435 Stereo Color Monitor.

IF you own a broken 520STfm/1040 Power Supply:
Send It In, With \$55, to Get a Replacement, New, Atari Power Supply.

IF you own a broken Mega ST Power Supply:
Send It In, With \$59 to Get a Replacement, New, Atari Power Supply.

IF you own a broken 520/1040/520STfm Keyboard:
Send It In, With \$59 to Get a Replacement, New, Atari Power Supply.

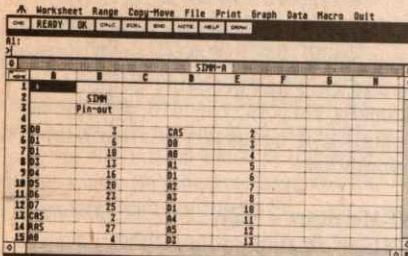
IF you own a broken Atari ST Mouse:
Send It In, With \$35 to Get a Replacement, New, Atari ST Mouse.

When we first began this program, we got all kinds of calls. "You say you take old ST software in for trade?" Nope. This hardware exchange program is something offered by Atari, and we're just passing it on to you. Still, before sending anything in for exchange, please call us. Happy motoring!

Accounting & Finance

(410) 544-1329 Amazing FAX

LDW Power Rocks Lotus!



LDW Power is the fastest and coolest spreadsheet for the ST. It is basically Lotus 1-2-3 compatible, and it runs faster, too! It's got full graphing capabilities and it will run on any ST with 512K or more (although 1MB is required for graphing). It's a lot faster than Lotus or VIP Professional. What may take up to a few minutes to recalculate in those programs will take a few seconds on LDW Power. Uses the beautiful GEM interface, and runs in any resolution on any ST or TT. Uses GDOS to print graphs to printer or metafile. Comes with sideways printing facility. Definitely a "must have" for any ST owner who has to mess with numbers.

- LDW Power, Version 2.0, It's Toadally Cool – \$109
- Templicity Templates – Includes Tax Forms! – \$29

PHASAR 4!

Phasar is one of the best home accounting programs available for the ST. Although it will work for a small business, PHASAR is designed mostly for the home or small business. It's a friendly, GEM based single-entry accounting program which gives a comprehensive record of income and expenses. Here are a few features:

- Relational design integrates financial data
- Artificial intelligence parser predicts input and minimizes typing
- 130 expense/income categories
- Up to 500 transactions per month
- Custom check printing
- Instant help messages
- Split-category transactions
- Automatic transfers between accounts
- Transaction macros for repetitive entries
- Easy budget set-up and maintenance
- Loan/savings plans analysis
- Outstanding transactions display for any account
- Designs individual tax forms
- Clearly formatted and printed reports
- Categories stored in any order
- Stores up to 250 names, addresses & phone numbers
- Display calendar with highlighted special occasions

We recommend this program to anyone who's got killer finances to keep track of, or who just wants to make tax time less painful! Runs on 512K, 1MB recommended.

PHASAR Version 4 – Only \$59!

DO YOU REALLY want a spreadsheet?

Many times when people think they want a spreadsheet to do a certain job, what they really want is a database management system. Here's a list of jobs where a database would be better than a spreadsheet: mailing lists, inventory lists, keeping long term checkbook information, accounts payable & receivable systems, and anything where you have to do lots of searching. Databases are frequently better for the job!

If not, try a database! Page 19

MEGA CHECK!

Mega-Check is a new program designed to handle all your personal finances in an easy-to-use, true GEM environment. Runs on any ST with 512K or more, color or mono. Supports any number of checking, savings, investment, and expense accounts. Pay any bill with a single mouse click. Never forget another bill with the built-in Payminder alarm system. Checkbook balancing is fully automated. Print checks on any printer, using any check form. Features a report generator with print-scheduler. Includes more than a dozen data entry aids, including Auto Capitalization and Auto Completion of names.

- MEGA-CHECK Financial Tool! – \$39!

Money Tools

Here are some other frequently requested and new programs that can help you deal with money and numbers.

• **3D-CALC** – This is the famed 3-dimensional multi-layer spreadsheet from Michtron. NEW! Features 13 pages x 2048 rows x 256 columns. Even does graphing, statistical analysis, and reads Lotus 1-2-3 files. Definitely a good spreadsheet value.

ONLY \$39!

• **PERSONAL FINANCE MANAGER+** – This is Michtron's home financial package. Files are compatible with 3D-Calc spreadsheet. **\$64!**

• **TAX WIZARD** – Next year, don't be a tax bum. Get ready with 1992's TAX WIZARD. Contains tons of IRS forms, and you can send them the forms it prints out! 1991 version available now, '92 soon.

ONLY \$39!

• **HOME ACCOUNTS 2** – A popular British financial package. **\$79!**

• **PAYROLL MASTER** – Easy payroll management system. **\$64!**

• **B.E.S.T. BUSINESS MANAGEMENT** – Complete system for handling order processing, invoicing, inventory management, purchase orders, general ledger, receiving, accounts payable, accounts receivable, reports, statements, and checks. Easy to use.

ONLY \$149!

• **CRICIT BAR CODE PLUS SOFTWARE** – Popular and versatile small business point-of-sale software. Optional accessories include a bar code reader (\$299), cash drawer (\$299), and LED transaction display (\$309), and second terminal software (\$109).

ONLY \$169!

• **SALES PRO PLUS 5.0** – From Hi-Tech advisers. Another popular point of sale package with excellent support.

ONLY \$139!

• **STALK THE MARKET** – Get online, analyze stock prices, and see which ones can make *you* the most money. Works with GENie, CompuServe, Dow-Jones, or manually! Great package.

ONLY \$59!

FUNKY ACCESSORIES

CRAZY DOTS 8/15 — Get expanded video and graphics on any Mega STE or TT030. Crazy Dots 8 is a 256 color board and will give you high resolution on any Multisync, VGA, or Super-VGA type color monitor. Crazy Dots 15 will do the same, except it can display 32,000 colors simultaneously. Mega ST version also available. Consider a PTC1426 or Acer 7015. Call for more information!

- **CRAZY DOTS 8** **ONLY \$829!**
- **CRAZY DOTS 15** **ONLY \$979!**

UNIVERSAL NETWORK — Great network software for Lantech Cartridge LAN (fastest, 10Mbps/sec), Mega STE/TT030 Appletalk networks (fast, up to 300K/sec), or MIDI (not so fast, 5K/sec) networks.

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- **PHONE-NET DEVICE** **ONLY \$39!**
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ST REPLAY — Terrific sound digitizer system. Replay 8 has more software than Replay 4. Replay Professional has higher quality hardware. Stereo Replay handles stereo digitizing.

- **ST REPLAY 4** **ONLY \$89!**
- **ST REPLAY 8** **ONLY \$119!**
- **REPLAY PROFESSIONAL** **ONLY \$129!**
- **STEREO REPLAY** **ONLY \$139!**

STEREO MASTER — Another cheaper stereo digitizer. Works with STE sound capabilities. **ONLY \$79!**

VIDI ST — High-quality and high-speed frame grabber for the ST. VIDI ST handles grey-scale images. The VIDI ST RGB Splitter divides color composite video into three separate red, green, and blue images. They can then be combined by the Vidichrome into one full-color image. Vidichrome also comes with color filters for full-color digitizing using a video camera. The Complete Solution gives you everything you need if you're starting from scratch. Works very well. Very popular.

- **VIDI ST** **ONLY \$129!**
- **VIDICHROME** **ONLY \$39!**
- **WITH RGB SPLITTER** **ONLY \$139!**
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DVT VCR HARD DRIVE BACKUP — This cartridge will allow you to back your hard drive up onto a standard VHS VCR. The better your VCR, the better your luck will be, but it works very well in general. A single videocassette will hold several hundred megabytes. Good for people who have to backup frequently and don't want to spend a fortune on a dedicated tape drive. **ONLY \$69!**

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Portfolio Transfer Cable	\$12
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THE ATARI ST BOOK — Ralph Turner's first (blue) book of Atari subjects. Great for beginners. **Only \$14**

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ADVANCED SUBJECTS — Turner's third, green, and most recent. Advanced topics - even the TT! **Only \$14**

C-MANSFIELD COMPLETE — Clayton Walnum's excellent guide to the 'C' language on the ST. Includes a disk chock full of examples! **Only \$29**

ASSEMBLY LANGUAGE — Clayton Walnum's guide to ST and 68000/030 assembly language. Very popular. Again, with disk full of examples. **Only \$29**

GFA BASIC GUIDE — Guide to the popular GFA Basic language, version 2. Great for beginners. **Only \$31**

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PURCHASE ORDERS ACCEPTED!

A Word About Our Spring/Summer Catalog

This catalog is dedicated to our advertisers. Their confidence in this project turned thirty-six pages into fifty-six. Thank them by purchasing their products. Here's to nearly six years in the business, to Ray and Jennifer for their love and support (in the form of letting me stay home and think deep catalog thoughts for a couple of months), and to Edmund Pugh Baugh, the turn-of-the-century fertilizer magnate whose nearby decaying mansion Uchlyon-on-Severn has provided me endless inspiration. Thanks Mom and Dad. Good luck in the new house. Kudos to Michael Stipe, Peter Buck, Bill Berry, and Mike Mills. "Don't Go Back to Rockville." Much love to Natalie Merchant. Thanks, Stouffers for the \$1.00 off coupons. This catalog was made with an Atari TT030, 8MB RAM (4MB ST/4MB TT), 19" mono monitor, and 240MB of hard drive space. A QMS-PS 810 Turbo PostScript laser printer with a 20MB hard drive was also very helpful. Spectre GCR was used to do some photographic work with Adobe Photoshop and illustration with Adobe Illustrator. Our cover is a photograph of Mrs. Cummins' barn near Lebanon, Illinois, taken by Patricia H. Troy, around 1970. A closer look will reveal the words "Purina Pig Parlor." Photograph of Jennifer was taken at Uchlyon-on-Severn, back porch. Photograph of Ray was taken at the Severna Park train station which was used until 1950. My photograph was taken at the former homesite of F.M. Kleis who created life-size statues of popular Marylanders, including the popular 1920's governor Albert C. Ritchie (pictured, headless). Keep the faith, and remember: until next time, this will have to do.

Atari Eight Bit

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ATARI 800 XL&XE

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PRINT DRIVER C.S.	UT \$5
PRINTSHOP	GR \$29

DISKS

PROBLEMS	PR \$39
VOCABULARY BUILDER	ED \$15
WARM CONSTRUCTION	GM \$12
WAYOUT	GM \$12
WHISTLER'S BROTHER	GM \$9
WITNESS	GM \$15
WIZARD OF WOR	GM \$9
WIZARDS CROWN	GM \$5
WORD FLYER	ED \$12

The Eight-Bit Story

By Your Host, Dave!

Back in the murky paleolithic past of Toad Computers, we decided it would be a good idea to try to "recycle" Atari eight-bit products. When new supplies began to diminish, and there were folks saying, "Hey, do you want to buy this stuff?", we started saying, "yeah!" What a perfect way to get this stuff into the hands of people who need it. Our plan has proven far too successful. Everyone wants to sell us stuff, and a different everyone wants to buy it. We're out of space. We've planned significantly more space in our new store for eight-bit storage and display, but as it is now, it's all we can do to keep the stuff off the street. So Ray's been good enough to make up a list of what we've got. Some things we have several of, others are in more limited quantities. Prices reflect availability and demand. If you're interested in selling your eight-bit stuff, call us. And if you're looking for something in particular, send a self-addressed prepaid postcard, and we'll take a look for you. We promise that we'll have an inventory system online when we're in our new location! Anyway, look over what we have. We have a lot. There are about five hundred items listed on this page alone. And there's more. See y'all next time!

WHEN YOU ORDER OUR EIGHT BIT SOFTWARE, EXPECT IT TO WORK. UNLESS OTHERWISE NOTED, ALL SOFTWARE IS USED. ALL DISKS ARE MANUFACTURER'S ORIGINALS. IF YOU HAVE EIGHT BIT HARDWARE OR SOFTWARE TO SELL, PLEASE CALL US!

EASTERN FRONT	GM \$15
ET PHONE HOME	GM \$6
FACE MAKER	ED \$19
FINAL LEGACY	GM \$15
GALAXIAN	GM \$15
INTO THE EAGLES NEST	GM \$22
JAMES BOND	GM \$19
JOLUST	GM \$9
JUMBO-JET PILOT	GM \$15
K-RAYZ SHOOTOUT	GM \$12
KICKBACK	GM \$9
KINDERCOMP	ED \$15
LEARNING WITHLEEPER	ED \$15
LOGIC LEVELS	ED \$15
MAC65	PG \$24
MASTER TYPE	ED \$19
MINER 2049ER	GM \$22
MISSLE COMMAND	GM \$9
MONKEY WRENCH	PG \$22
MOON PATROL	GM \$15
MUSICAL COMPOSER	MU \$12
NECROMANCER	GM \$19
ONE ON ONE	GM \$22
PAC MAN	GM \$15
PAST FINDER	GM \$15
PILOT LANGUAGE	PG \$15
POLE POSITION	GM \$15
POPEYE	GM \$15
Q-BERT	GM \$15
QIX	GM \$7
R-TIME 8	CK \$49
RESCUE ON FRACTALUS	GM \$22
RIVER RAID	GM \$15
RIVER RESCUE	GM \$7
SILICON WARRIOR	GM \$15
SMART TERMINAL	TC \$12
SPACE INVADERS	GM \$12
STAR RAIDERS	GM \$5
SUPER BREAKOUT	GM \$12
TENNIS	GM \$15
THUNDERFOX	GM \$22
VIDEO EASEL	GR \$12

Cassettes

ATARI CHALLENGE	GM \$3
BOMBER ATTACK	GM \$3
CANNON CLIMBER	GM \$5
CHECKER KING	GM \$3
CONVERSATION	ED \$12
CONVERSATL SPANISH	ED \$12
CONVERSATL ITALIAN	ED \$12
CRUSH CRUMB CHOMP	GM \$5
CRYPTS OF PLUMBOUS	GM \$3
EMPIRE OF OVERTIME	GM \$3
ENERGY CAZAR	ED \$12
FORBIDDEN FOREST	GM \$3
GRAPH-T	PR \$3
HICKORY DICKY DOCK	ED \$3
HUMPTY DUMPTY	ED \$12
INV. TO PROGRAMMING 3	ED \$3
LEGIONNAIRE	GM \$3
MAILING LIST	PR \$5
MICRO CHESS	GM \$2
RESCUE AT RIGEL	GM \$3
REVENGE	GM \$5
SCRAMBLE	ED \$12
SPACE CHASE	GM \$3
STAR LEAGUE BASEBALL	GM \$5
STRATOS	GM \$3
TEMPLE OF APHAI	GM \$5
THE KEYS OF ACHERON	GM \$5
ZAXXON	GM \$5

FOR ANY SOFTWARE ON THIS PAGE:
 • Buy Over \$50, FREE SHIPPING!
 • Buy Over \$100, Take 10% Off!
 • Buy Over \$200, Take 15% Off!

TOAD SAYS: "IT'S THAT EASY!
 BUY MORE AND SAVE MORE!"

CODES

PG	PROGRAMMING
GM	GAME
WP	WORD PROC.
ED	EDUCATIONAL
MU	MUSIC
TC	TELECOM
GR	GRAPHICS
PR	PRODUCTIVITY
UT	UTILITY
DB	DATABASE
GN	GENERAL
CM	COMPUTER
DD	DISK DRIVE
PE	PERIPHERAL
UP	UPGRADE

HARDWARE

ATARI 800XL (64K)	CM \$69
ATARI 800 (48K)	CM \$39
ATARI 1200XL (64K)	CM \$49
ATARI 400 (16K)	CM \$19
ATARI 600XL (16K)	CM \$39
ATARI 1300XE (128K)	CM \$59
ATARI XE GM SYS. (64K)	CM \$99
ATARI 1050 (127K)	CM \$99
ATARI 810 (90K)	DD \$59
ATARI XF551 (680K)	DD \$149
ATARI XF551 (380K), NEW	DD \$179
PERCOM SS/DD (180K)	DD \$89
PERCOM SD/DD (180K)	DD \$129
RANA SS/DD (180K)	DD \$109
INDUS GT SS/DD (180K)	DD \$129
TRAK SS/DD (180K)	DD \$109
ATARI 1010 CASS. DRV.	PE \$17
ATARI 410 CASS. DRV.	PE \$12
ATARI 1020 PLOTTER	PE \$19
ATARI XM301 MODEM	PE \$15
ATARI 1227 MODEM	PE \$12
TOP GUNNER (NEW)	GM \$12
NAUTILUS	GM \$5
NEWSROOM	GM \$9
O'REILLY'S MINE	GM \$12
OGRE	GM \$9
ONE ON ONE	GM \$15
COAST HIGHWAY	GM \$9
UPPER REACHES APHAI	GM \$12
USAFAF	GM \$17
VALFORTH	GM \$7
TOUCHDOWN FOOTBALL	GM \$12
ULTIMA 1	GM \$5
ULTIMA 2	GM \$19
ULTIMA 3	GM \$12
ULTIMA 4	GM \$19
XETEC GRAPHIX AT	PE \$49
ATARI XEP80	PE \$79
COLOR COMPOSITE MON.	PE \$75
MONO COMPOSITE MON.	PE \$49
POWER SUPPLY	CALL

ALL EIGHT-BIT HARDWARE COMES WITH A 90-DAY LIMITED WARRANTY. IF IT DOESN'T WORK, WE'LL REPLACE IT. ABSOLUTELY FREE!

(SHIPPING NOT INCLUDED)

3-D MODELER FOR 8-BIT ATARI!

All of the pictures appearing on this page (except the top right) are unretouched TV-screen photos of 3-D models rendered by a new commercial 3-D shaded-modeler for Atari 8-bit computers.

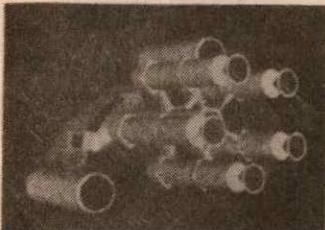
Two new programs!



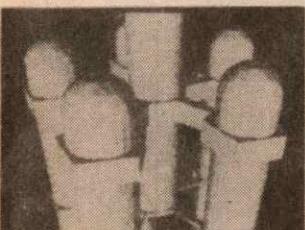
Pitcher, rendered by
MODEL BUILDER
(TV Screen Photo)



Same Pitcher, rendered
by SURFACE SHADER
(TV Screen Photo)



Space ship,
5 cluster rockets
(TV Screen Photo)



Close up of cluster rockets
from the top
(TV Screen Photo)

ChromaCAD™ 3-D MODEL BUILDER 91 program

With the ChromaCAD™ MODEL BUILDER program, you can build any 3-D model you can dream of. You merely start at the bottom and draw the contour lines of the model as you work your way up. Add surface colors to the model as you draw the lines. You decide how many contour lines to use for each model (up to 158) and you decide the elevation of each line. Huge scrolling 32767 x 32767 graph allows you to construct contour lines as detailed as you want. Supports computer-assisted drawing of lines, circles, arcs, ellipses. Displays models in contour-line form.

With this program, you will be able to construct unbelievably sophisticated 3-D models. The MODEL BUILDER 91 program reflects a new breed of 3-D modelers -- completely free-form, sculptured-surface -- no "extrude" or "sweep" limitations. You will be able to construct models of human heads so accurately that, when you display them with the ChromaCAD™ SURFACE SHADER XE 91 program (described below), you will be able to recognize the subject from the model! (See the photo of an actual bust and the 3-D renderings.)

ChromaCAD™ SURFACE SHADER XE 91 program

The ChromaCAD™ SURFACE SHADER XE 91 program can display any model constructed by the MODEL BUILDER program in surface-shaded format from any point of view, using up to three lights. Lights can be individually varied in intensity and individually set to strike the model from any direction. Models can be displayed in a variety of modes, including high resolution, color, and 3-D stereo. Colors can be reassigned instantly without replotting the model. Up to 61K of computer RAM can be used for image display memory. (The screen photos appearing on this page are of models rendered in high-resolution 61K format.)

Up to ten models can be individually oriented in 3-D space and displayed together to produce one compound multi-model scene. (Terrain model, Airport model, airplanes, cars etc. combined to produce one scene.) The program also supports negative, mirror, and stepped-tone rendering, automatic clipping, highlighting, ambient lighting, and inside viewing of models. We know that all of this is hard to believe so, with purchase of the SURFACE SHADER XE, we include the bust model (shown to the right) free of charge. You, yourself, can view the model from any angle, in any mode, using any lighting or rendering option you want.

View any model in 3-D Stereo! (With included 3D stereo glasses.) Watch models virtually jump off the screen.

ChromaCAD™ MODEL BUILDER 91 program with

136 page illustrated, indexed manual
Order # 21 (requires 48K Atari) \$29.95

ChromaCAD™ SURFACE SHADER XE 91 program with
69 page manual, 2 pair Stereo 3-D Glasses
and sample MODEL DISK #1 (contains 10 models)
Order # 35 (Requires 130XE) \$29.95



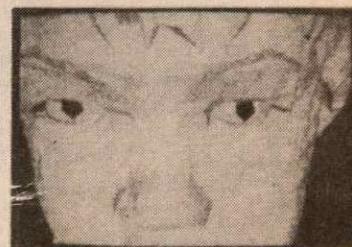
Photo of actual bust
of human head



3-D model rendering
(TV Screen Photo)



3-D Model Rendering
(TV Screen Photo)



3-D Model Rendering
(TV Screen Photo)

Educational Software

A Cooperative Effort by Jenn & Dave

(410) 544-6943 All Smiles

Learn With The ST!

Everyone's been asking for educational software. We've kid-tested many of these programs ourselves and liked what we saw and heard. If you are new to this variety of software, try to sample more than one brand. Nearly all of these programs have been recommended by parents we know, but everybody has their favorites and your kids will too.

Fun School Programs

Only getting one program today for junior? Try one of these! Each of these English imports has six programs in one - with graphics and animation that will make them a favorite time and time again. It's great stuff that comes highly recommended. (Each *Fun School* (2, 3, and 4 comes in three different versions. Please specify child's age.)

Fun School 2: \$29

Under Six
6-8 year olds
Over Eight

Fun School 3: \$39

Under Five
5-7 year olds
Over Seven

Fun School 4 (the latest!): \$39

Under Five
5-7 year olds
7-11 year olds

D.A. Brumleve: *kidpgr collection*

Excellent Software! Have a kid who writes menus for dinner? Writes stories? Makes coloring books? A real creative monster who never rests? Try some of these! They grow with your child's creativity.

Kid Publisher Professional: \$27

A Desktop Publishing Program for Young Writers
Age 5-11

Easy to use with great results! This is definitely one of my favorites. Text and drawing are printed on one page for easy production and a professional look. Four built in font styles, title page generation, 32 columns and 7 lines of text per page, 10 pages per document (w/1mb), word wrap, underlining, and kidfriendly interface with mouse control. This is what I wanted when I was seven, making books on mom's 1942 typewriter.

Super Kid Grid: \$21

For Creative Graphics Design
Ages 3-11

Make colorful pictures and designs with triangles on screen. Or print out and color later. Number the triangles and give "Color-by-Number" pictures to friends.

Kidpainter: \$27

For Creative Graphics Design
Ages 5-11

Use a variety of tools to create colorful pictures on screen. Print your own coloring books, puzzles, posters and cards! Horizontal or vertical mirroring, imaging, and

text in several sizes and styles available within program. Also allows you to make your own on-screen puzzle and solve it!

Telegram: \$21

The Silly Song Player
Ages 5-11, Readers only
Drive your telegram vehicle and deliver the silly singing telegrams to characters all over town. It's a tough job but somebody has to do it. So watch out for parking tickets and have fun singing along!

Multiply: \$27

Age 5-12

Brings Multiplication back from the Dead
Great for any kid learning how to manage numbers. Multiply helps kids to think about numbers in new ways! An interactive game involving multiplication tables. Multiply will help your child internalize concepts dealing with multiplication and division. Lots of fun. Learn without even knowing you're doing it!

First Byte

They talk! It's kinda like listening to HAL of "2001" fame. So if you're not easily driven insane by children's toys that communicate, get some! They're fun and easy for younger kids to get into.

Building Blocks Series:

First Letters & Words: \$23

Age 3-8

Be introduced to letters and words by the First Byte talking bear! Four programs include: Card Circus, Magic Letter Machine, Dinosaur Surprise, and Who Am I? I like the dinosaur coloring part.

First Shapes: \$23

Age 3-8

The talking bear is back to get everybody involved with SHAPES! Learn the five basic shapes, use shapes to build toys, shape recognition games and more.

Kid Talk: \$23

Any Age

This is the program that talks to you! (The adult version "Smooth Talker" at just \$24 is fun too.) Type in words and the computer will speak them back to you.

Math Talk Fractions: \$23

Ages 8-15

Master fraction, decimal and percent problems with: Problem Factory - Enter your own problems for individualized help. Team Challenge - Pick a team and test your skill. Fraction Shuffle - Master fraction facts with on-screen card game. Fun House - full of fraction challenges.

Unicorn Educational Software

Unicorn offers a variety of informative software with extensive reading on screen with a quiz structure throughout that fosters better reading comprehension skills.

All About America: \$35

Ages 6-11

Some of the historical highlights include:

Manhattan Island & the Dutch, William Penn, Explorers & Colonies, Transportation, Inventions, Abe Lincoln & the Civil War - 16 subjects in all. There is also a very useful map disk that has the Thirteen Colonies, The U.S. Before the Civil War, Our 50 States, with quizzes involving states, capitals, and even postal abbreviations!

The Wonders of the Animal Kingdom: \$24

Ages 6-12

Six different activities covering all sorts of animals. Read up on the various animals in the "electronic animal encyclopedia" and then go on to test your knowledge on these creatures that have or still do cover this earth. Good looking animal illustrations. A trip to the zoo would definitely be fun after this program.

Other Unicorn Titles:

Aesop's Fables
Decimal Dungeon
Fraction Action
Kindergarten
Math Wizard
Read & Rhyme
Read-A-Rama

Other Educational Titles:

The Black Cauldron: \$19

This Sierra 3-D Walt Disney adventure based on the Newberry Award winning book, "Chronicles of Prydain," is great for grade-school children or older. This teacher recommended fairy tale adventure encourages reading as well as organization and decision making as your child controls the lead character with joystick or control keys. Get this great Disney/Sierra adventure today before they're all gone! (Works with mono or color monitors. ST only, not STE.)

Math Blaster: \$29

by Davidson, Teaching Tools From Teachers
Ages 6-12/Grades 1-6

Tired of flashing flash cards? Sure, it's good healthy parent/child interaction but give yourself a break and your child a new twist! Math Blaster drills 750 addition & subtraction, multiplication & division and fractions, decimals and percent problems with the option to add more of your own. Animated and colorful, it offers retake options, progress charts and printed certificates in recognition of outstanding scores!

Mixed-Up Mother Goose: \$19

Ages 4-9

Wander through Mother Goose Land, looking for lost objects to complete the nursery rhymes. Once the rhyme is finished, the mother goose characters will act out their parts in their respective rhymes. Yay! You be the characters! Truly an excellent program! Hours of fun.

Geography Tutor: \$32

Brush up on where Europe is.
Pepe's Garden: \$39
Pre-school

Learn pre-reading skills, reading, simple math and creativity with Pepe, the wacky mouse, and his friends. Includes a free coloring poster!

Debonair Software

El-Cal: \$45!

Deranged Mathematician Types

The Math Machine

We're talking about serious math here, not just piddly elementary stuff. El-Cal is a complete scientific calculator with some extras, like graphs, multiple formulae, probability and statistical functions and much more. Will find real or complex roots of functions. Does integration and differentiation! It will fit data points with any function: chi-square or maximum likelihood method. Also does vector and matrix operations (up to 10 x 10). This program is a godsend for anyone studying or all-too-familiar with Calculus, Linear Algebra, Statistics, or Probability.

Star Base: \$43

Amateur and Pro Astronomers
Anybody interested in astronomy has a need for a reference program with data on the brightest stars, extragalactic objects, planets and comets. This is it. It includes all 9096 stars from the Yale Bright Star Catalog, more than 300 deep sky objects, sun, moon, and planets, more than 30 periodic comets, and more. Fun and informative for any stargazer.

Even More Titles!

Mavis Beacon Teaches Typing: \$39

People Who Can't Type

Ever wish that you could get someone really nice to make up some fun games to ease the tedium of learning to type? She's here! Mavis Beacon, world renowned secretary and typing whiz, has created this swell typing game that's everyone's favorite. Type the words in the clouds, compete in the typing race, and more. Great fun and learning, too.

Compute Your Roots: \$29

Youth to Adult Learning Fun

Interested in learning more about your family tree, but discouraged by the hours and hours of tedious record-keeping that are necessary to plot it? Compute Your Roots, from Wasatch Educational Software, will let you keep track of your ancestors the easy way: on disk! Don't waste another day "drawing" your family tree. Get it on disk!

The Shoe People: \$39

Small Kids

Little people that live inside shoes help your kid to learn about many essential learning skills. Doesn't teach stuff, but rather how to learn stuff. Call for more information!

Bentley Bear's Fun Programs All Just \$19!

General Store: \$19
Grade 3-7

Help Mr. Bear as he deals with customers and re-stocks his shelves. It's like being an Atari dealer. Real-life application of numbers. Works in Color or Monochrome.

Magical Math I, II, or III

Spelling Bee
Memory Master I or II
Alphabet Tutor
Typing Tutor
Magical Anagram
Equation Builder

Arrakis Software

These all will help elementary to high-school aged kids learn about the fundamentals of math and science. All are \$24.

Algebra I	Volume 1 or 2
Algebra II	Volume 1 or 2
Biology	Volume 1, 2, 3, 4
Chemistry	Volume 1 or 2
Geometry	Volume 1 or 2
Physics	Volume 1 or 2
Statistics	Volume 1
Trigonometry	Volume 1

True Basic Titles

True Basic makes a series of math tutor programs that are not only very good, but they're very unique. Want a tutor (and a good one) on graph and set theory? True Basic's Discrete Math is it.

Discrete Math	\$29
Trigonometry	\$33
Pre-Calculus	\$29
Calculus	\$29

LinkWord Languages

Very useful for basic pronunciation skills. Also helps with remembering vocabulary. All titles are \$21.

Linkword French
Linkword German
Linkword Spanish

German Master: \$31

Covers slightly more advanced aspects of the German language.

EZ-Test Writer: \$31

EZ-Test Giver: \$19

Ever wish you could write multiple choice tests without having to bring in the national guard? EZ-Test Writer will do it for you, and Test Giver will administer the test!



My, What Lovely Programs!

CLEANUP ST

Somewhere under the hood of your hard drive, bugs, inconsistencies, and potentially brain crushing problems lurk. They can smell stress; as soon as you need your computer the most, the little bugs will sense your perspiration and **bam** — you're shut down. Entire partitions are gone. Months, years, nay a lifetime of work is suddenly rendered inaccessible or just destroyed. For people, the way to stay well is to not get sick. That means keeping clean. And the same is true of your hard drive. ICD's own **Cleanup ST** will scour your drives for problems, and correct them before they cause you problems. If you do let things go too far, it will also repair, as much as possible, damage that has already occurred. Cleanup will also backup partition sectors. Don't let your hard drive make you sick. Cleanup your ST *today!*

- ICD's **Cleanup ST**, Only \$29!

MOS Disk Utilities

► **MOS Disk Utilities** contains several very helpful utilities all in one quick and easy dish. **Defragment your hard drive.** When data is written to your hard drive, it's written where there's free space. And free space isn't always contiguous. That means you could have a single file written in a hundred different places on a disk. When you read back the file, a lot of time is spent moving from place to place. Defragmentation rewrites the data so that it's all contiguous. So reading your commonly used files doesn't require a U.S. road trip. This means greater overall speed. MOS contains a **very** efficient defragmenter. MOS will repair file allocation tables, directories, map out bad sectors, detect bad sectors *before* they go bad, and strengthen weak sectors. Very useful utility indeed. Makes a good complement to Cleanup ST.

- **MOS Disk Utilities**, Only \$49!

Diamondback TWO

► What can we say here? If you don't back up your hard drive one way or another, you're dumb. Your hard drive is your own, personal computer identity. Lose the contents of your hard drive, and you'll lose parts of you. And backing up doesn't require two hundred disks and two weeks, anymore either. **Diamondback II** will *compress* your data, so it won't take so many disks. And it won't back up files you've already backed up! Diamondback II will backup Spectre partitions. It will backup onto SyQuest drives like the **Toadfile 44 Plus**, or onto fixed hard drive partitions. Diamondback II is reliable, fast and flexible. And its author, **Bob Luneski** does a super job supporting it. Read the ad below for more information, but hear me now and believe me later, if you don't back up the stuff you care about, you'll be real sad.

- **Diamondback II**, Only \$39!

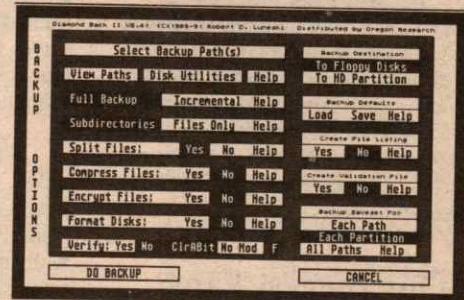
Oregon
Research
Associates

Do You Remember August 27, 1991?

**Diamond
Back
II**

Probably not. But if you last backed up on August 27 and your hard disk crashes, you'll find yourself remembering it painfully well. Your time and data are too valuable for you to spend it recreating past accomplishments. Back up regularly with **Diamond Back II!** Simply the *FASTest*, easily the most *Flexible*, and absolutely positively without question the most *Reliable* hard disk backup & restore program for the Atari ST! And now, Diamond Back is even faster with the new Diamond Super faST Compression. Faster backups using half the disks!

- ▼ EASY to use 100% GEM user Interface ▼ Online Help
- ▼ Point and click to select specific backup paths and files
- ▼ Backup/Restore ANY number of specific files or paths
- ▼ Creates 100% normal TOS files! ▼ Full/Partial Restores
- ▼ Flexible include/exclude wildcards for backup/restore!
- ▼ Incremental backups ▼ Load/Save Configuration files
- ▼ Compression & Encryption ▼ CRC Validation Logs
- ▼ Backup/Restore Spectre partitions! ACK & 3.0 OOP
- ▼ Intelligent Image option only backs up sectors w/ data!
- ▼ Incredibly fast hard disk to hard disk backups!
- ▼ Full support for TT and 1.44M High Density Floppies!
- ▼ New in V2.41: Diamond SUPER faST Compression!



Oregon Research Associates, 16200 SW Pacific Hwy., Ste 162,
Tigard, OR 97224 Phone: (503) 620-4919 FAX: (503) 639-6182

Notes on the State of the Art

A Scat by Dave Troy

'92 Hard Drives

From what we've seen of 1992, it looks like it's going to be a very good year for hard drive buyers. Prices have dropped to all-time lows, and drives have never been faster.

What We Sell

Right from the start, we here at Toad Computers decided that we would sell nothing but the best stuff. It makes sense. We like repeat business. It doesn't make sense to start a restaurant where all your steak looks like prime rib but tastes like wood pulp. Our prime rib is prime rib. We're not your local greasy spoon.

Our policy of "just the best" stuff is why we sell Quantum, Maxtor, and Seagate fixed drives. And the SyQuest removables, our Toadfile 44 and '91 drives, are of the highest quality as well. All of our drives are *brand new* and carry the full manufacturer's warranty.

The Coolest Cases

Our custom designed hard drive cases are the best available. Our ToadPlus case will hold (*and power*) two half-height 5.25" or 3.5" drive mechanisms floppy or hard. So if you want to expand your system later, you can open the case and add what you want to add - all without voiding your warranty. We trust you.

Our exclusive SCSI switch makes attaching your Toadfile to a system with an existing hard drive easy. Or if you take your ToadPlus hard drive to a friend's house and wish to attach it to his system, you don't have to rip the thing apart limb by limb to make it work.

We have a front mounted, lit power switch. It's classy, and easy to use. Our grey, custom silkscreened (with our hip Toad logo) cases beautifully complement your ST system. We have a detachable, standard power cord, with a power out jack. Now, your hard drive doesn't have to take up another precious electrical outlet.

Our Biggest Fans

We sell to many bands, including

the Neville Brothers, Bo Diddley, and Prince. And we listened to them: our quiet, studio-quality fans have turned our musician friends into some of *our* biggest fans.

"We Sell Nothing But the Best Stuff."

The Faster Drives

As far as speed goes, our drives just keep getting faster. Where just six months ago our average speed was around 500-600K per second with 28ms access times, many of our drives are now frequenting over 1MB per second, with 12ms access times. That's because we shop for the fastest drives. And we don't settle for anything mediocre.

ICD SCSI Goes Fast

Our drives can't help but go fast. They're based around SCSI imbedded drives - the fastest drives for use on the ST. SCSI drives eliminate unnecessary fat in the data chain that exists in some other drives.

We also use ICD AdSCSI host adapters, the fastest available for the Atari ST. The AdSCSI Plus has a clock - so your 520 or 1040 ST or STE can tell time. ICD also supports their product; they've been around for about eight years and they're still going strong.

Our Fixed Drives

We use Quantum LPS and Pro series drives. The LPS drives (52MB & 105MB) are low profile, small drives, and they dissipate heat well. The Pro (240MB) drives have an excellent track record; they come standard in Macintosh II series computers.

We use the best of the Seagate drives. Our 50MB drive, 20MB drive, and others are time-tested excellent drives. When you buy a Mega STE or TT030, with an internal 50MB drive, you get the same excellent Seagate mechanism.

Our new 130MB Maxtor drive is a low profile, very fast drive. It's the newest addition to the ToadPlus family, and rest assured, it's excellent.

Removables: Why?

Even though our Toadfile 44 and '91 SyQuest (pronounced Sigh-Quest) based removable drives have been out for three years, many people still don't understand why you'd want one. Or, they haven't heard about their excellent reliability.

Suppose you're a graphic artist, and you're constantly making and downloading clip art. You don't want to store it all on floppies. Some of your clip art won't even fit on floppies! Do you want to take up valuable space on your main hard drive? Probably not. That's why you'd want a Toadfile 44 or '91.

Each 44MB or 88MB disk is easy to handle, inexpensive, and very reliable. The cartridges can be mailed anywhere. You can trust your Toadfile with everything from fonts to programs to treasured data. Use your Toadfile to backup your existing hard drive. In making this catalog, we're using 44 and 88MB cartridges on at least three machines.

Suppose your family of four uses the computer frequently, but you want everybody to have their own hard drive "space." Give 'em each a cartridge. That insures privacy, and will give everybody a sense of greater security.

Musicians love the Toadfile 44 for storing song sequences, digital samples, and synth patches. Frequently, musicians will find themselves working with a "set" of songs, samples, or patches. When you're done with your latest album, "Chalk Dust in My Sinuses," you can put it on the shelf - and all the tunes and sounds that go with it.

If you have a boatload of picture files you want to give to a friend, all you have to do is give him your Toadfile cartridge. And of course, our Toadfile drives are compatible with other SyQuest drives.

Removable Reliability

Our removable drives have an excellent record. In three years, with zillions of satisfied customers, we've seen very few bad drives - or cartridges. And when there is a problem, it's usually with the drive, not the cartridge; so your precious data stays safe.

The Bottom Line

Whether you buy a ToadPlus fixed drive or a Toadfile removable, you can rest assured that your choice will mean one thing: your drive is of the highest quality. It has to be. With the best drives, the best cases, the best support, and the best reputation, how can you go wrong?

Give Us a Call!

If you're not sure what size fits you best, or whether you want a fixed drive or a removable, feel free to give us a call. We'll ask you the right questions and get you set up with a hard drive you'll love for years.

DC DATA DIET

A Focus on
1992's Most
Popular Utility

So you've filled up the last byte on your old 20MB hard drive. What to do? You could buy another hard drive. Not a bad idea - but how badly do you need it? And can you afford it right now? What if there was a way to make your data take up less space? What if you could compress your 20MB of files into 13MB? That would leave 7MB free for you to use; and the compression would make the 7MB look more like 10 or 12MB.

DC Data Diet is a **realtime data compression utility**. Have you ever heard of Stacker for the PC? Well Data Diet does just about the same thing. Without changing your drive's directory structure, Data Diet compresses *every* file on your drive.

So how does it work? When you double click on a program, like PageStream, the compressed file is read from the disk, by Data Diet. Data Diet uncompresses the file and hands the uncompressed version to the computer, to run. And the computer doesn't even know it's happening. And it doesn't have to work on just programs, either. You can compress your data files, picture files, or anything else.

There are three compression options. The most compressed formats take longer to decode, and the least compressed formats are faster. If you have a fast machine, or don't mind a slight slowdown, you can use the most compressed format for the greatest gain of space. This gives you more control!

Data Diet is very reliable, and very popular. We've sold hundreds of copies.

1992's Bestseller: Just \$47!

COOL: Hard & Floppy Parts & Stuff!

Host Adapters

ICD Advantage Plus.....	\$99
ICD Advantage.....	\$89
ICD Advantage Micro.....	\$89
Supra Revision Two with Clock.....	\$79

Controllers

OMTI 3527 RLL (Only a few!)....	\$149
Adaptec 4000 (Used).....	\$139

Cases/Power Supplies

Shoebox Case & PS.....	\$109
Under the Monitor Case & PS....	\$119
Host Mount for Cases.....	\$10
ToadPlus UTM Case.....	\$159
Tower Cases.....	Call
ICD FNST Case, P.S. & Host Kit....	\$259

Drive Mechanisms

Seagate ST125N-1 20MB 28ms.....	\$179
Seagate ST157N-1 50MB 28ms....	\$229
Seagate ST296N 85MB 28ms.....	\$339
SyQuest 44MB & Cart 25ms.....	\$449
Syquest 88MB & Cart 25ms.....	\$699
Quantum LPS52 12ms.....	\$269
Quantum LPS105 12ms.....	\$369
Quantum 240MB 12ms.....	\$699
Quantum Pro80 20ms.....	\$249
Maxtor 130MB 12ms.....	\$399

All Drives Listed Above are SCSI Drives.

Miscellany

3.5" Mounting Bracket.....	\$10
18" SCSI Cable (2 Connectors)....	\$10
24" SCSI Cable (3 Connectors)....	\$15
ST506/412 34 & 20 Pin Cabler.....	\$10
Screw Pack for two drives.....	\$1
Host Adapter Mounting Plate.....	\$10
Controller Mounting Plate.....	\$10
Extension ToadPlus Power Cable....	\$8

Floppy Drive Mechs

720K 3.5" Teac DSDD.....	\$85
360K 5.25" Teac DSDD.....	\$85
3.5" Teac Mounting Kit.....	\$10
1.44MB 3.5" Teac DSHD.....	\$90
Floppy Drive Connector Cable....	\$15

So You Want to Do It Yourself?

If you already have some of the necessary parts to build a hard drive, it might be a good idea to assemble a system yourself. It's probably not a good idea to start entirely from scratch; usually the sum of the parts will cost more than a complete, assembled and tested system from us. But again, if you just need a couple of parts, you'll find our prices to be low and our support to be excellent.

Floppy Drives: Dude!

Maybe you don't really need a hard drive. Maybe you just need a second floppy drive for a little extra storage. Or maybe you need to upgrade your existing floppy drive to a high-capacity, high-density disk drive.

Golden Image 3S

Double sided 720K. Very nice drive. Spectre GCR compatible.
Now Only \$139!

High-Density Drives!

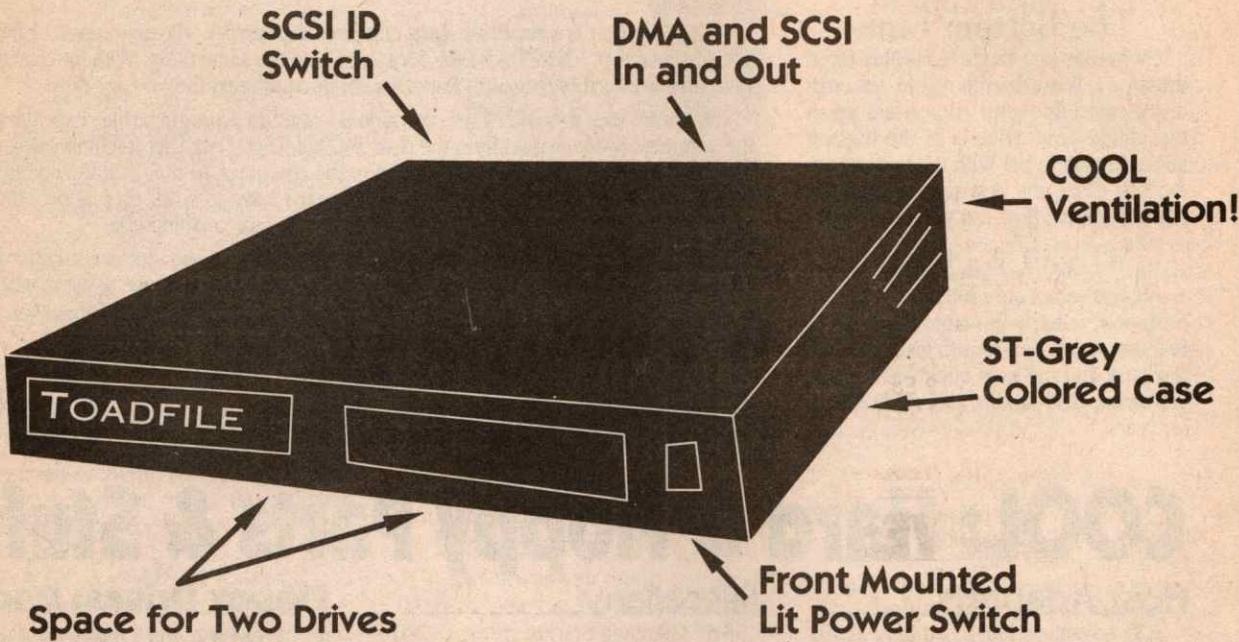
TOAD-DENSITY

- INSTALLS IN ANY ST: 520, 1040, MEGA, STACY OR STE
- READ AND WRITE PC COMPATIBLE 1.44MB FLOPPIES
- MAY REQUIRE CASE MODIFICATION

**ONLY \$169!
Installation \$39!**

See our "ST Upgrades" page, page 24, for more information on this great upgrade.

We Can Point to Thirty-One Reasons You Should Buy a Hard Drive From Toad Computers — Now.



► Our new **ToadPlus** series hard drives have the seven new features we've pointed out above. Here are some more:

- Detachable Standard Power Cord
- Handy Female Power Out Jack (Great for Monitor – Saves an Outlet)
- A Cool, Cool, Cooling Fan
- Fits Under Monitor or Mega ST
- Great For Do-It-Yourselfers Too
- Specifically Designed for the ICD Host Adapters, and others fit too!

► You need a **ToadPlus** hard drive now if you want:

- Faster Reading/Writing Of Files
- No More Floppy Swapping
- Enough Room For More Than Three Large Files at a Time
- Better Organization of Files

► And our superior product isn't the only reason we should be your first choice for a hard drive. See if our competition can match these demanding requirements:

- More than three brain cells
- Five Years Hard Drive Experience
- No Police Record
- Drives Come In a Variety of Cases: Shoebox, **ToadPlus**, TT/Mac, or ICD
- Drives FULLY Tested before Shipping
- ALL Service Done ON PREMISES
- All Drives Easily Expandable
- Telephone Tech Support Mon.-Sat.
- Comprehensive Knowledge of Atari Applications & Other Hard Drives
- PD Software Available ON Drives
- Beautiful ST-Matched Grey Case
- Do-It-Yourself Drive Parts & Service
- Hard Drive Upgrades
- **FAST & FREE Shipping**

The TOADFILE 44: Removable Reliability!

TOADFILE 44 PLUS DRIVES

Toadfile 44 Plus (44MB Removable & Cart)	\$649
Toadfile 96 Plus (44MB & 52MB 12ms HD)	\$849
Toadfile 174 Plus (44MB & 130MB 12ms HD)	\$999
Toadfile 284 Plus (44MB & 240MB 12ms HD)	\$1299
Toadfile 44 Magnum (44MB & 3 Carts)	\$789
Toadfile 88 Plus (Two 44MB Drives & Carts)	\$1109

TOADFILE '91 PLUS DRIVES

Toadfile '91 Plus (88MB Removable & Cart)	\$799
Toadfile '91/52 Plus (88MB & 52MB 12ms HD)	\$999
Toadfile '91/130 Plus (88MB & 130MB 12ms)	\$1149
Toadfile '91/240 Plus (88MB & 240MB 12ms)	\$1499
Toadfile '91 Magnum (88MB & 3 Carts)	\$999
Toadfile '91/44 Plus (88MB & 44MB & Carts)	\$1179



Right before Dave Small's latest *Toadfile* was sent to him (thanks, Dave, for the SST), we decided to take its picture. So here it is in its full glory. Yes, kids, this is the new *ToadPlus* case. You can't see it in this picture, but it comes with two SCSI switches (for two drive mechanisms), a DMA IN and DMA OUT port, a SCSI OUT port, and a detachable power cord. Along with the front-mounted power switch, we even have a POWER OUT port so your drive doesn't have to eat up a valuable electrical outlet! Dave's drive (and now all our drives) also features our new quiet fan. Also included inside is complete cabling for addition of a second SCSI drive. We didn't skimp on anything with this design, and we're certain you'll appreciate it - whether you choose a removable or fixed drive. And no matter what, your *ToadPlus* based drive can accept another fixed or removable drive later. It's totally expandable. That's the beauty of a good design.

Toadfile Features

- Longest DMA Cable Around (2'+)
- ICD Advantage Plus Host Adapter w/ Clock
- Our *ToadPlus* SCSI Switch
- Available In Shoebox Case for Same Price
- 44MB Cartridges: \$72 Ea. Qty 5
- 88MB Cartridges: \$115 Ea. Qty 3
- Check "Supplies" (p. 33) For More Pricing!

TOAD DRIVES: The Best!

When we started selling hard drives, we realized that right next to the hard drive mechanism itself, the **packaging** was the most important element. That's why we came up with the **ToadPlus** case. It's simply the best designed hard drive case for the Atari ST to day! And of course, nothing comes before the hard drive itself. And that's why we're using nothing but quality Seagate (S), Quantum (Q), Maxtor (M) and Fujitsu (F) drives. We're certain you'll be thrilled silly with any of our drives! We make sure they're all great!

TOADPLUS HARD DRIVES

Toad 20S 28ms	\$399
Toad 50S 28ms	\$449
Toad 52Q 12ms	\$479
Toad 130M 12ms	\$599
Toad 240Q 12ms	\$899
Toad 330F 12ms	\$1249
Toad 520F 12ms	\$1349
Toad 680H 12ms (Shoebox)	\$1499
Tadpole 52Q Mega Internal	\$399
Tadpole 130M Mega Internal	\$499
ICD FAST Tape Backup System	\$869

We can upgrade existing drives - internal or external!

- ToadPlus Under-Monitor or Shoebox Cases, Same Price
- Longest DMA Cable Around (2'+)
- ICD Advantage Plus Host Adapter w/ Clock, SCSI Switch
- FULL Two Year Warranty, Parts & Labor
- Able Bodied Monday-Saturday Tech-Support
- Want your hard drive full of PD Software? Add \$1/MB!
- Ask about ToadTower Cases & Drives — Available Soon!



Who Uses Toads?

You may wonder what kind of folks have chosen **Toad** drives and what they have to say about them. Here are some satisfied **Toad** customers:

- **Dave Small, Gadgets By Small**
"I *LOVE* my Toadfile 44. All Spectre development is now being done on the Toadfile 44."
- **Art Neville, The Neville Brothers**
"It's great!" Toadfile 44 & Toad 680. Sequencing, Scoring & Direct-to-Disk Recording.
- **Debbie Hastings, Bass Player for Bo Diddley**. "Bo Knows Toad."
- **General Dynamics, Electric Boat Div.** They make nuclear submarines. Dude.
- **Frank Sommers, CN ST Editor**
"The finest stuff available!"
- **John Barnes, CN Columnist**
- **Joe Waters, CN Publisher & Editor**
- **Steve Thompson, Designer of Macy's Stores Everywhere!**

Gadgets by Small

(410) 544-6943 Huh?

Gadgets' SST and GCR Turn Your ST Into IIfx

A Proposition by Dave Troy

When the brothers Tramiel coined their first ST, I'm absolutely certain that they never imagined a day when it could run Mac software on a 46MHz 68030. Enter Gadgets by Small.

Now, when you want to run a piece of Mac software, there's an alternative: the Spectre GCR. Dave Small's got a new goodie.

Mac emulation aside, the SST 68030 upgrade will take any ST and make it run up to 46MHz with fast RAM. The SST is specifically designed for use in the '87-'89 vintage Mega ST, but 520 and 1040 users, don't feel excluded yet.

Because of the size of the SST, it's not possible to put it into a 520 or 1040 and leave it in its existing case. Enter the ToadTower ST case, currently under development. We will install your 520 or 1040 in our vertical ToadTower case. With

several disk drive bays, and lots of room for future expansion, the SST is just the beginning of your ST's new life.

In the meantime, if you already have a Mega ST, you should know that we're the official SST installation center. And if you don't already have a Mega ST, call us. We're currently buying Mega ST's specifically for SST installations.

The SST, whether you choose to run it at 16, 33, or 46MHz, will speed up anything you do on your computer by an average factor of twelve (and sometimes much, much faster). Our great prices on the SST, installation, 68030 CPU, 68882 math coprocessor, and RAM mean that you can get online with a complete 030 system which will beat your brother's new 486 on lots of benchmarks.

The SST has eight 1MB SIMM sockets and will let your ST have up to 12MB of

RAM. (Eight of those twelve are *burst-mode* capable fast-RAM.) So anything you do with your ST is suddenly supercharged – from DTP to CAD to programming to graphics. SST won't conflict with Moniterm or other graphics cards.

Combine your SST with Gadgets' Spectre GCR and you've got a really fast Mac. The Spectre already makes many improvements over the standard Mac Plus, like improved hard disk speed, floppy speed, and screen size. But with the SST, your Mac-ST will *fly*. Suddenly, your machine compares to a Mac IIci or IIfx.

With a 46MHz 68030 the SST will outrun a TT - no problem. And the SST stays compatible with more ST software than the TT does. So doesn't the SST make sense?

Sure, Atari never dreamed that an ST could go so fast and do so much. But does that mean you can't dream?



SST

YOU NEED:

- SST BOARD – BASIC UNIT \$579

CPU & COPROCESSOR OPTIONS

- 33MHz XC68030/882 Pair \$349
- 46MHz MC68030/882 Pair Call
- 16MHz MC68030/882 Pair Call

RAM: 2, 4, 5, 6, or 8MB OPTIONS

- 2MB SST FASTRAM PACK \$59
- 4MB SST FASTRAM PACK \$164
- 5MB SST FASTRAM PACK \$196
- 8MB SST FASTRAM PACK \$328

INSTALLATION: HAVE US DO IT!

- INSTALLATION IN MEGA ST \$49
- INSTALLATION IN OTHER ST \$59
- TOADTOWER INSTALLATION Call

All you have to do is add the price of the SST to the price of the CPU option you need, along with the RAM option you want, then add in installation. That's right; you can have a 33MHz 030 in your Mega ST (with a full 12MB) for around \$1200. That's pennies a day! Just consider all the time you'll save yourself!

* SPECTRE *

GCR

- | | |
|--|-------|
| 1. SPECTRE GCR | \$219 |
| REQUIRES MAC 128K ROMS | |
| 2. MAC ROMS | \$300 |
| 3. THE TOADALLY COOL SPECTRE GCR DEAL | \$499 |
| INCLUDES SPECTRE & ROMS TOGETHER. | |
| 4. MEGATALK | \$279 |
| ALLOWS ST TO USE MAC NETWORKS AND SCSI DEVICES LIKE SCANNERS & CD ROM. | |
| 5. MAC READ | \$39 |
| HANDY UTILITY TO READ MAC HFS DRIVE PARTITIONS AND TRANSFER FILES TO ST. | |

PRICES ON THESE ITEMS, LIKE ALL OUR PRICES, ARE SUBJECT TO CHANGE. MAC ROM PRICES ARE ESPECIALLY VOLATILE.



By David Small,
Guest Anarchist

What's a Mac Emulator? And Why Would I Want One?

He's Dave Small; she's Sandy Small. Together, they're Wyld Stallyns. Woops, I mean Gadgets by Small. David invented the first Macintosh emulator, the Magic Sac, in 1986 and has been perfecting the design ever since. The latest rendition is the Spectre GCR. It will read and write Mac format disks, in addition to running almost every Mac program. David is an excellent storyteller and folklorist, and in that capacity has been a perennial favorite in "Current Notes." Here, Dave gets a chance to do something he seldom can as a writer: plug product. We appreciate his willingness to write this for us, and we hope to bring you other "Small" vignettes in the future.

What's a Mac Emulator?

A "Mac Emulator" is a gizmo that makes your Atari ST act like a Mac Plus, so well that you can use Mac software just as if you were sitting in front of a Mac! The product we build is called "Spectre GCR" and it can make your Atari into a fine, fine Mac Plus indeed. And so you know, there are no other Mac Plus emulators for the Atari around. Spectre comes as a small cartridge that you plug into the cartridge port of your computer.

The cartridge is inactive until you call for it; your Atari can still do everything *Atari* that it ever did. It's just that now the world of Mac software is open to you! How hard is it to access? Literally, put the Mac disk into the Atari disk drive, double-click on SPECTRE.PRG, and press RETURN — and you're a Mac!

Soul Of The Mac

How is this possible? Well, Spectre takes the two Apple ROM chips that are the "soul of the Mac," you might say, and gives you a way to plug them into an Atari. (They actually plug into the cartridge.) Then the software I wrote teaches those ROM chips how to talk to the Atari, since the Atari is so different from the Mac. This software is five years of my life and around 25,000 lines long at the moment (it's getting bigger with TT support).

Along with Spectre GCR, you must get

those "Soul of the Mac" ROMs. There are two actual chips, and popping them into the cartridge will take you 15 seconds on a bad day — or heck, ask your dealer to do it! The numbers on those chips are 342-0341 and 341-0342. CAUTION: Don't get chips with other numbers; they are likely to be incompatible ROMs, such as 341-0220 / 341-0221; they will fail to work.

Insurance for the Future

I get letters all the time talking about how the Spectre GCR is "insurance" for the Atari ST/TT, for your hardware's cost. It really is insurance of the best kind. Literally, if every Atari store and developer closes tomorrow, *I never fear, Dave,* if you have Spectre GCR, you'll have enough programs to run for years! The Mac Plus is still the "compatibility standard" that nearly all Mac programs are tested for, and there are zillions of Mac programs for it.

Spectre GCR can *read* and *write* Mac disks (400/800K format; 1.44 superdrive is coming) in your plain old Atari ST drives. Yes, this means you can bring your Mac disk home from work, plug it into your Atari, use it, write your data back to it, and take it back to your office! Our customers do this all the time. The GCR is a very fault-tolerant Mac disk system, too; we often use it to read Mac disks that our office Mac II's can't quite read a little bit of! It is also very fast, reading and writing Mac disks as fast as is physically possible.

Hence, the Atari ST is really a *MULTI-COMPUTER*, since there are many fine IBM mode emulators for it, too. (See elsewhere in this esteemed catalog for them.) As you are wandering through a store or software catalog, you no longer have to wonder if your ST is compatible with something; if it's Atari, IBM, or Mac, you can probably run it!

The Spectre GCR runs just about all Mac software. Sure, it is possible, if you really try, to write something the Spectre

will not run, but it involves breaking so many Mac "rules" that the program probably won't run on a Mac either!

All the important stuff runs, all the "famous Mac names" in software. From Lotus 1-2-3 to SuperPaint to After Dark, it all works.

The major exceptions are software that is copy protected, like games (fortunately, copy protection is being dropped, as it won't run on newer Macs either!), and color Mac software. The Spectre GCR emulates a Mac Plus, and a Mac Plus did not

"ALL THE IMPORTANT STUFF runs, all the 'famous Mac names' in software. From Lotus 1-2-3 to SuperPaint to After Dark, it all works."

understand color — so there are a few Mac programs we cannot run. [Most color Mac programs will run, and run well, in monochrome also.] As for other compatibility, well, we are so compatible that we can run Mac Plus programs that the Mac II cannot! (Heck, we're so compatible that a Spectre can catch Mac viruses; so we include an excellent de-virus tool with Spectre.)

This means you can run an estimated 15,000 + Mac programs, including some of the all-time greats: Excel, MacPaint, MacWrite, Hypercard, Adobe Illustrator, Aldus Freehand, gallons of public domain software, and in general, the stuff that makes people want to buy Macs. (After all, there has to be SOME reason!) Very few programs are incompatible; a Mac program has to REALLY try to foul up before it will crash. We fix bugs in many Mac programs on-the-fly and let you continue running, never knowing the program tried to crash!

You can use your hard disk with the Spectre, no problems. In fact, it ends up being about three times faster than a Mac Plus with the hard disk, and since the Mac

(continued next page)

Dave Small Speaks

(410) 544-1329 Trivial Fax

uses the hard disk so very much, you end up going a lot faster. In terms of sheer speed, the Spectre is 20% faster than a Mac Plus, and about even with a Mac SE. (With a TT or an accelerator, like the SST, the Spectre can achieve orbital speeds — like a IIci or IIfx!)

We go to extremes in compatibility! If you take a hard disk formatted on the Mac, and attach it to the ST, Spectre will be happy to use it. The neatest one of these is the Syquest 44-meg removable (like the Toadfile 44); we move data around all the time with it. Or if you use DOS Mounter, you can put an MS-DOS (IBM) disk straight into the ST and read it into the Mac!

The Mac has a rather small, 512 x 342 screen. We let you use the full 640 x 400 Atari monochrome screen, which *really* makes a difference in desktop publishing. Incidentally, the Atari 640 x 200 color monitor will work, but it just doesn't have the resolution to be very comfortable. Huge-screen monitors, like the TT TTM-194 or Moniterm, work great and provide a powerful workstation; I use a Moniterm all the time!

(Speaking of the TT, we have found some TT's that don't like the original production run of GCR; the hardware just didn't get along quite right. So we've changed the GCR slightly to adapt it to the TT (that doesn't affect the ST/GCR at all). We are currently updating Spectre to do neat things for the TT, such as using the new SCSI TT hard disks, doing networking on an Apple network, and using Mac SCSI devices, but this isn't finished yet.)

As of the moment, you can laser print with the Atari SLM804/605 two ways: use our "ImageWriter" emulator, at 144 x 144 dpi, or use UltraScript, Composcript, or a PostScript printer to print a PostScript image at 300 x 300 dpi. We have a more direct 300 dpi solution in the works. If you have a PostScript printer with a serial port (most do), you will be happy to know Spectre can hook up to it, with the help of an Apple program called "Async LaserWriter."

If you have another printer, such as the popular Epson or NEC-P6, you will need a "printer driver" program; Apple did not make the Mac able to use these printers as-is. We recommend GDT Softworks

for printer drivers for everything from the MX-80 to the very popular HP DeskJet/DeskWriter. We are compatible with serial or parallel printers!

We strongly support non-USA "MSTs," too. You can EASILY reprogram all of our menus into any language, you can laserprint to A4-size paper, and fix any keyboard incompatibilities you find. We sell many, many Spectre GCR's to non-U.S.A. customers and have made a major effort to support those users; for instance, we even made Spectre able to read old "Aladin" disks (a no-longer-made German Mac emulator), just to help you move upwards in compatibility.

As with the IBM emulators, you can transfer data back and forth between Mac mode and Atari mode, even though the data styles are pretty different, other than a very few "standards." For instance, MacPaint pictures come right over! You can move an ST image to the Mac, use sophisticated Mac tools on it, and move it back to the ST, without any problem; in fact, we used that feature in our newsletter. The Mac <-> ST tool is called "Transverter," and it comes with the Spectre for free.

So you now have access to neat computer tools from three different manufacturers (Atari, IBM, Mac), and just simply need to pick and choose which tools you want to use! The Atari is capable of using them all, at high speed and very cleanly.

I should mention our track record. Spectre GCR has been around since 1988 and has sold many thousands of units; we work hard at customer support. (We've found word-of-mouth advertising to be the best of all!) We've sent out periodic newsletters with hints and tips, and keep improving the product. Right now, for instance, we're teaching Spectre to use Mac "System 7," and are very close to having it working. While the current version of Spectre is 3.0, expect a newer version soon; 3.0 was released January 1991, and all our new work goes into the next version! (There have already been five versions, all of which greatly extended Spectre and added "impossible" things to it, such as Mac style sound!)

MegaTalk and 68030 SST

We also produce a hardware product primarily for Spectre that will allow you to

directly plug in Mac modems, printers, networks, MIDI, and SCSI devices; it is called "MegaTalk" and will ship shortly (only the manual remains to be polished off). In particular, MegaTalk makes Spectre so compatible that Mac-MIDI programs work fine; we showed MegaTalk at the annual music industry show, NAMM, and surprised quite a few Mac MIDI developers. Just think, the ability to switch easily between ST and Mac-mode MIDI, with all the patch files in Mac format available!

We are now well into shipping the long-anticipated 68030 SST, which can make the meekest ST into a state-of-the-art, speed computer for the 90's; with an SST, you won't have to feel apologetic next to an 80486/33 MHz — at all! We can bump up the speed of the ST to around 12 times with the SST, and add 8 megabytes of RAM to the ST for 12 megabytes total; we are currently testing Spectre to make sure there aren't any bumps in the road running at this sort of speed!

The Manual Is Readable, Too

The manual is written in a far different style from most computer manuals, which are usually sleep-inducing. Every other chapter is an *Interlude*, stories about the computer business as we've seen it, stories of our kids growing up with computers or little known things about computers. The manual is, honestly, often called among the best manuals ever written by readers; we receive an amazing number of warranty registration cards because users are still awake, and still having fun, at the end of the manual.

Independent Reviews

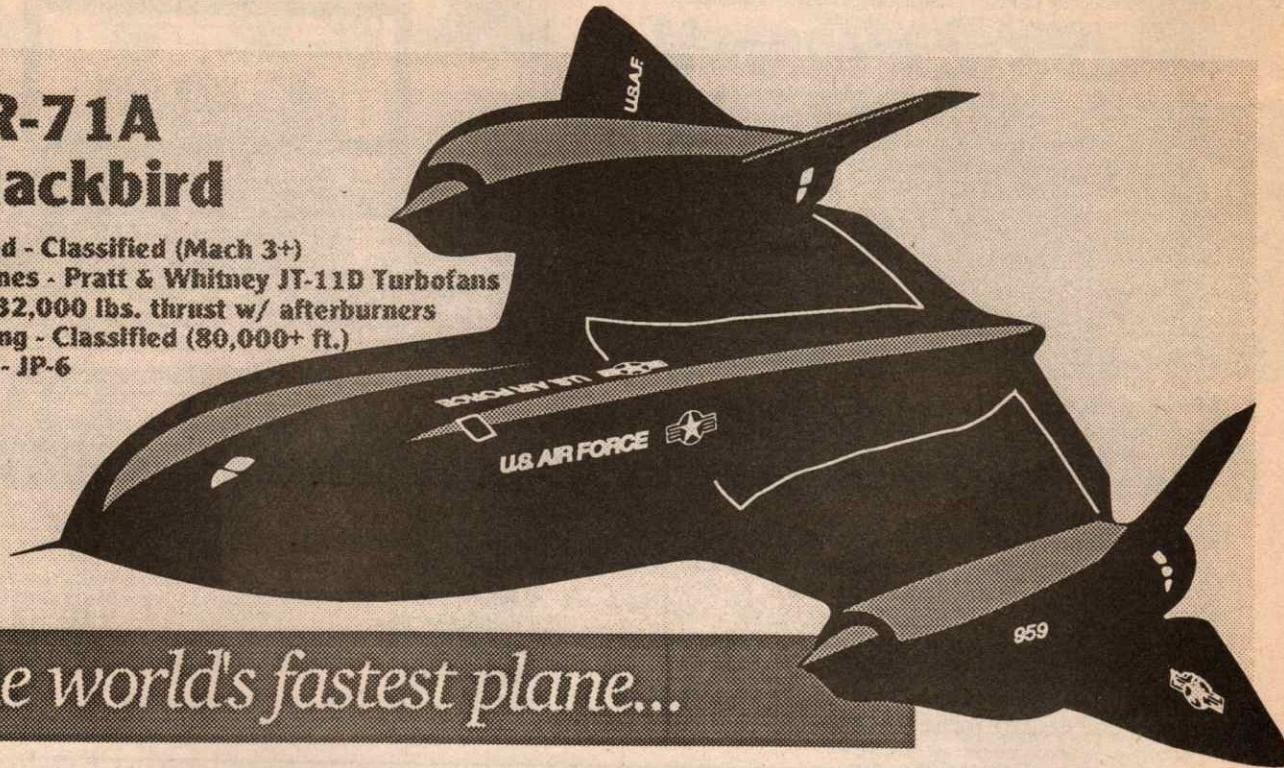
Finally, there have been many independent magazine reviews of Spectre GCR you can read. For example, we won Byte Magazine's "Gadget of the Year" in 1990; the European E.C.L. Award's Best Product for the Atari ST in 1990, and scored an excellent 94% rating in the British "ST-Format" rating in its review. We have done well in other reviews, but we haven't had them translated yet!

You can find our cool Spectre deals on page 41. SST deals can be found there as well as on our "Upgrades" page, page 24.

feel the need... **THE NEED FOR SPEED**

SR-71A Blackbird

Speed - Classified (Mach 3+)
Engines - Pratt & Whitney JT-11D Turbofans
32,000 lbs. thrust w/ afterburners
Ceiling - Classified (80,000+ ft.)
Fuel - JP-6



the world's fastest plane...

SST

...the world's fastest Atari

Introducing the fastest, most compatible, most flexible accelerator available for the Atari Mega ST: the splendidly cool **68030 SST**. With its screamingly fast 68030 microprocessor, up to 8 meg of fastRAM (to 12 meg total), asynchronous design, and special compatibility software by Dave Small, the SST is any "ST pilot's" dream...

...The dream can be yours! So bring your Mega ST into the 90's, and turn it into one of the fastest machines on the planet!

From the people who brought you Macintosh emulation on the Atari (and whose Dad actually flew the SR-71).

SST prices start at \$599.00

68030 SST

Speed - 16 to 40 mhz asynchronous design; up to 12 times faster than a Mega ST

Engine - MC68030 Microprocessor with Caches and Burst Mode Afterburner

Ceiling - up to 12 Megabytes of RAM

Fuel - up to 8 Megabytes of 32 bit fastRAM in tandem w/ a 16, 33 or 40 mhz oscillator

Operating System - TOS 2.05 (Mega STe), with the new Atari desktop

Expansion - processor direct slot; Chromax Super Video board already "in rollout"

User Upgradeable - when ever you want to



Gadgets by Small SSTSSTSSTSST

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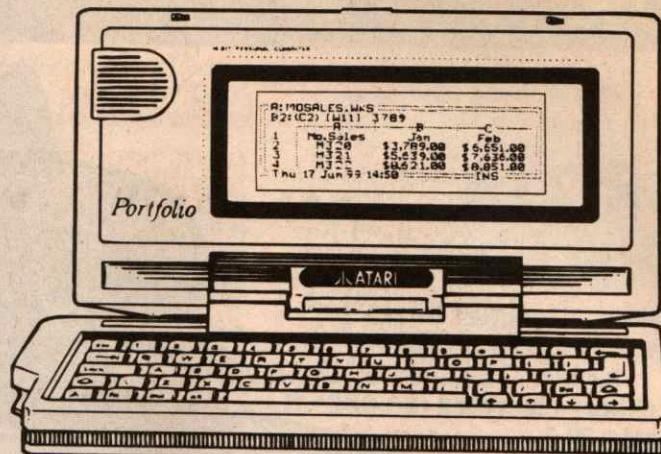
Handheld Atari!

(410) 544-6943 Sound Effects

The Atari Portfolio

- 128K continuously powered internal RAM, externally expandable
- System commands are MS-DOS 2.11 compatible
- Includes 5 applications: spreadsheet (Lotus 1-2-3 file compatible), word processing (ASCII file compatible), telephone address book with autodialer, appointment diary with multiple alarms, and calculator
- Familiar QWERTY keyboard, software compatible with IBM PC
- 63 positive action keys with audible click feedback
- Speaker for telephone tone dialing, melody
- Runs on 3 AA Batteries for 6-8 Weeks
- 60-pin expansion bus
- Measures 7.8" x 4.1" x 1.2". Weighs 15.87 oz.
- About the size of a VHS videocassette
- 80C88 static CMOS processor runs at 4.9152 MHz
- Built in 32-pin connector for RAM/ROM Memory Cards (replace floppy disks for storing data and programs)
- 40 x 8 text mode (with a movable window on virtual 80 x 25 display)
- 256 x 64 pixel graphics mode
- Super-twist LCD adjustable angle screen
- Standard IBM extended ASCII character set
- 90 day warranty standard
- 1 Year warranty available for \$49.95! Ask about it!

The Atari Portfolio is the world's first handheld portable and *affordable* IBM compatible computer. If you read its impressive list of features, you get some idea of what it's capable of. But there are more products becoming available all the time to handle a wide variety of specialized functions! And heck — they even used one in *Terminator 2* to break into an ATM! The interface and the bundled "No-Mess Bank Robbery" software have been held up by a nasty bug, but should be out pretty soon now!



About the size of a VHS Videocassette. Weighs less than one pound!

Atari Portfolio — \$239!

• AC Adapter	\$9
• 128K RAM Memory Card	\$149
• 64K RAM Memory Card	\$99
• 32K RAM Memory Card	\$59
• Parallel Interface	\$39
• Serial Interface	\$59
• PC Card Drive	\$79
• Parallel Transfer Cable	\$12
• Serial Transfer Kit for ST	\$79

Toad's Best Portfolio Software & Accessories

SOFTWARE

Alpha Paging Interface — Use the Portfolio to send text messages to alpha pagers. **\$89**

Astrologer — Great substitute for newspaper horoscopes. Computes your fate on the fly. Great for Calvinistic types. **Call**

Checkwriter — Comprehensive package to manage finances, checkbook, and credit card balances. Supports integrated accounting and ledger features. Print balance sheets, profit & loss statements, journals and ledgers. **\$139**

Chess — Locked in a closet in the middle east? Good thing you have your Portfolio! You can play chess! Portfolio plays a tough game. **\$39**

Compuserve Online Service Starter Kit — Compuserve has a very active Portfolio section, filled with files and information for every Portfolio owner. Get the starter kit **today** and find out what's **online!** **Call**

Diet & Cholesterol Counter — Serves as a daily watchdog for your cholesterol levels. Enter everything you eat; it will tell you what you can't eat! Even print your diet! Built-in database includes 1,500 food items! **Call**

DOS Utilities Package — Includes a DOS shell with many advanced DOS commands. Includes password protection of files, copy functions, and more. Also includes XTERM xmodem serial terminal program! **\$79**

Dynapulse — A complete blood pressure and pulse rate measuring system. Takes systolic, diastolic, mean arterial pressure and pulse rate measurements with clinical grade accuracy. Includes carrying case, arm cuff and bulb, plus required custom hardware & software. **\$299**

SOFTWARE

Finance — Atari's financial package includes many financial calculation functions including loan and mortgage amortization. Good package! **\$79**

FORTH Programming System — Requires only 8K of RAM and allows for complete editing, compiling, assembling and disassembling of programs entirely on the Portfolio. **\$95**

FX-3 DUAT Flight Software — Links to FAA certified weather briefings and allows filing of flight plans. Also stores briefings in the Portfolio. **\$79**

FX-4 Flight Planner — Provides a full U.S. navigational database and a detailed leg-by-leg trip plan. Optional 56 day update service available. **\$79**

Hyperlist — Allows any topic to be organized in any format you define. An outliner specifically designed for the Portfolio. Perfect for education, reports, and general data compilation. **\$49**

Message Mover Mac or PC — Allows data to be transferred to Mac or PC computers with ease. (Specify) Comes with appropriate software. **\$189**

Micro Hedge — Great for investors, portfolio managers and options traders. Allows quick computation of the viability of investments. **Call**

Micro-Roentgen Radiation Monitor — Turns Portfolio into a sensitive, logging geiger counter. Monitors and plots radiation from many sources. **\$149**

PBASE — General purpose relational database for Portfolio. Print, sort and edit user-definable records. **\$99**

SOFTWARE

Pharmaceuticals — Have instant access to information regarding commonly prescribed drugs along with dosage, administration, warnings, suppliers, and more. Search on keywords, too! **\$129**

Physicians' Reference I — Answers many questions which may arise in caring for patients on a day-to-day basis. Interprets blood gas levels and nutritional requirements. **\$89**

Power Basic — A complete BASIC compiler. Supports graphics and text commands. **\$89**

Portfolio Instant Speller — Complete spelling checker for any ASCII file. Includes 100,000 words and variations. Very versatile. **\$39**

Stocks Games — Simulate the market and play against four other players. **\$79**

Stock Tracker — Portfolio in a Portfolio. Track all your personal stock investments. **Call**

Terminal + — User friendly on-line terminal program. Use any modem! **\$39**

Timekeeper — Keeps time for professionals who bill by the hour. **\$39**

Timetac-5 — Records billable hours and expenses with multiple accounts. **Call**

Transport — Easy link for Portfolio to ST. Requires complete serial interfacing. **\$24**

U.S. Traveller's Guide — Includes restaurants, shopping, theaters and more for many U.S. cities. Great for movers and shakers. **Call**

Wine Companion — A veritable database of wine information, you can't swill without this guide. Very superficial. **Call**

HARDWARE

Portable Printer — Consider the Star SJ48 and the Citizen PN48. Both are compatible with the Canon BJ10e. **See Printer Page.**

20 to 430MB Hard Drives — Yes, you can attach a hard drive to the Portfolio. **Call**

HPIL Interface Adapter — Interact with a wide variety of HPIL devices. Allows up to 23 devices connected. **Call**

512K RAM Upgrade — Our own installation allows many more programs to be used. Only requires 15% more power. **Call**

Portable Modem — Hook up your Portfolio with the rest of the world. Call for our portable modem alternatives. **Call**

See the list of Portfolio hardware peripherals above. They're our "best" too!

ACCESSORIES

Complete Guide to the Atari Portfolio — A well-written guidebook which is sometimes easier to understand than the original owner's manual. Any new Portfolio owner should consider this book! **\$14**

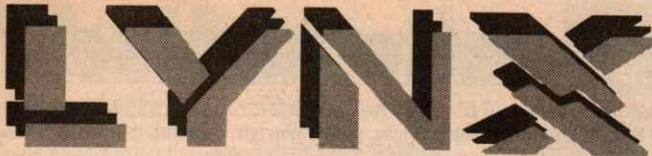
Portfolio Leather Case — A beautiful leather case, with pocket for interface and RAM cards. Has a belt loop for wear on your person. **\$29**

Portfolio Nylon Case — A smaller, less expensive case. No room for an interface, but good for placement inside a briefcase. **\$19**

Portfolio Cables — We have every cable you could desire for the Portfolio. Modem cables, printer cables, transfer cables, and more! **\$12**
That's all folks! Call for a Portfolio chat!

(410) 544-6943 Sound Effects

Handheld Atari!



• ONLY \$99!

(\$149 with CA Games, AC & Comlynx!)

ALL Lynx Games Even New Games! Now \$35!

- **720°:** This amazing skateboard stunt game has the same test tracks and overhead 3D view as the arcade classic. Face slalom, jumping course, high speed ramp and half pipe contests! Ultimate skateboard action!
- **A.P.B.:** Do you have what it takes to cruise the town in a brand-new squad car? Bust the law-breakers and help the needy or you'll face the police chief's fury! Stay on your toes in this coin-op classic.
- **Awesome Goff:** Fore! This simulation lets you adjust your stance, choose your club, check the wind, and control your swing! Great!
- **Bat Boy Tennis:** Tennis gets tough – especially when folks don't play by the rules.
- **Baseball Heroes:** Capture the fun and excitement of major league baseball. Listen to the digitized voices, the crack of the bat, and the roar of the crowd. Watch the ball come right at you as it sails right out of the park! Even does stats!
- **Basketbrawl:** Ready for a tough, rough game of no-holds-barred basketball? Knives and fists are common on this court, and mercy is a wimp word. Keep eye on the ball and your back as you race down to score. Rated PG-13.
- **Battlezone 2000:** Are you ready for modern tanks?
- **Bill & Ted's Excellent Adventure:** Help Bill and Ted save themselves and search for their bumbling historical babes! Talk to Billy the Kid, and many other historical figures to gain clues. Face it – they need your help!
- **Blockout:** An addictive 3D puzzle strategy game that takes advantage of the Lynx's awesome scaling features. Faithful reproduction of coin-op original. Like a 3D Tetris.
- **Blood and Guts Hockey:** Coming soon! A faithful enactment of real NHL action! Teeth knocked out routinely!
- **Blue Lightning:** Challenging fighter pilot simulation. Weave in and out between mountains, trees, and incoming missiles – blowing away enemy fighters at the same time!
- **Cabot:** A mad man's dream! Guerrilla war at its best! You are a mercenary hired to infiltrate and destroy the headquarters of another mad man bent on conquering the world!
- **California Games:** Surfing, BMX, skateboarding, and hockeysack all in one fun cartridge! Grab your boogie board and your suntan oil 'cause it's time to go west!
- **Checkered Flag:** Get in the driver's seat of a formula one race car and zoom around at 219 miles per hour with the seven-speed transmission! Link up to six Lynx players, too!
- **Chip's Challenge:** He's naughty. He's in love with Melinda. But to get her, he's got many puzzles to get through! That's his challenge and only you can help!
- **Crystal Mines II:** Can you dig it? Here in the Crystal Mines caverns, every step can have a downfall, every move a mistake, every leap a lesson. Like the famous Boulderdash.
- **Demonstrate:** Coming soon! Sure to be another Lynx action packed classic!
- **Dino Quest:** Coming soon! All kinds of dinosaurs doing what they do best! Chomping, squashing, and crunching helpless humans!
- **Dirty Larry:** He's a renegade cop and he's got to collect power-ups and other weaponry that you'll use in your quest to beat the temble Mr. Big!
- **Dracula:** Coming soon! Become everyone's favorite vampire and suck as much blood as you can find!
- **Electrocop:** Help a robotic police officer in the 21st century in his quest to save the President's daughter!
- **Eye of the Beholder:** Coming soon! An all new role-playing adventure for the Lynx!
- **Full Court Press:** Coming soon! Guaranteed action!
- **Gates of Zendocon:** Make a trek and defeat the enemy!

THE PORTABLE COLOR VIDEOGAME SYSTEM

BUY THREE GAMES!
GET A FREE
SUN VISOR!
\$4.95 VALUE FREE!

RAD ACCESSORIES FOR YOUR LYNX!

- **Lynx Kit Carrying Case:** Store game cards, adapters, the Lynx, and other peripherals with stylish ease. **Only \$17!**
- **AC Adapter:** Don't use so many darned batteries! Wherever there's an electric outlet you can use your Lynx! **Only \$14!**
- **Carrying Pouch:** Stores Lynx and several game cards in an easy to carry belt pack. Made of acrylic and nylon. **Only \$14!**
- **Auto Cigarette Lighter Adapter:** Now you can take the Lynx on the road without worrying about batteries! **Only \$17!**
- **ComLynx Cable:** Connect up to eight Lynxes for fast paced action in certain multiplayer games. **Only \$9!**

MEET THE LYNX! THE WORLD'S BEST!

The Atari Lynx is the world's first handheld color videogame system—and it's also the best! Sporting a 16MHz 6502 CPU, 3.5" color LCD screen, and a 4096 color palette, the Lynx is fast and has beautiful graphics! And the new redesigned Lynx (pictured left) sports a super-ergonomic design

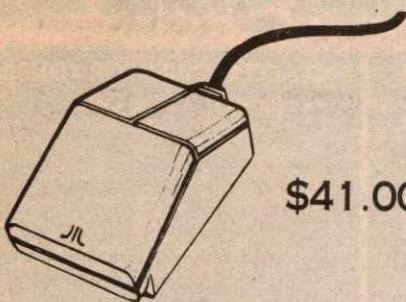
that's durable, easier to hold, and even more attractive. With ComLynx, you can link up several Lynxes! And check out this cool list of accessories, too! Order your Lynx TODAY and get in on the coolest and best videogame system around! Works on AC Adapter or six AA batteries!

- **Gauntlet:** Retrieve the Star Gem from the palace before the evil ones misuse its power. Up to four players can participate!
- **Geo Duel:** By far the most intense 3D game. You pilot your ship over a city, zapping the enemies that approach from every angle. Futuristic first-person game.
- **Hard Drivin':** The classic ST driving game comes to the Lynx, so now you can take it anywhere!
- **Heavyweight Contender:** Coming soon! Boxing at its portable best!
- **Hockey:** Quickly get the feeling of skating on ice with the realistic play mechanics. The action never stops!
- **Hydra:** You are the lifeline to the resistance troops fighting far across the ocean. But the enemy knows your mission and is waiting to stop you cold!
- **Hyperdrome:** A futuristic soccer game where you ride in a robot shell! Not unlike the classic ballblazer!
- **Ishido – The way of stones:** Try to match tiles with corresponding color or shape to empty your bag of Ishido tiles. This game of the orient plays superbly on the Lynx.
- **KLAX:** Like you've never seen it before! Direct the colored tiles as the come flopping at you! Make rows or diagonals of colored tiles and receive big points! Let too many slip by and you'll have to start over! Very, very addictive!
- **Krazy Ace Miniature Golf:** Genuine putting skill is required to navigate this treacherous miniature golf course! Alligators, gorillas, clowns and other mysterious wonders lurk around every corner. For one to four players.
- **Kung Food:** Coming soon. Oriental skill meets western food fights. Was that a tomato on my kimono?
- **Lemmings:** These little buggers can now drive you nuts anywhere! Take them on the road and be thinking about strategies for saving these little numb-skulls all the time.
- **Lynx Casino:** Learn the bad habit of gambling at an early age! Place your bets! If you feel you have a hot hand, try your luck at the craps table. Or, if you've got an ace up your sleeve, the poker and blackjack tables are waiting. And the slot machines are waiting to siphon your cash, too!
- **Malibu Bikini Volleyball:** Scantly clad babes combined with classic and realistic volleyball fun! Coming soon!
- **Ms. Pacman:** A great version of the arcade classic!
- **NFL Football:** Realistic NFL action in portable full-color! Control the offense, the defense, and your quarterback! Choose from several teams! One or two players!
- **Ninja Gaiden:** Eons ago, an evil presence emerged that threatened all existence! It's back now, and you're the only Ninja that can stop it!
- **Ninja Gaiden III:** Coming soon! See what happens to evil presence!
- **Ninja Nerd:** Can a misplaced nerd defend himself? Coming soon!
- **Pacland:** These little buggers just won't stop! Smooth action make it a hit for all ages!
- **Paperboy:** Contend with the neighbors, dogs, and upset customers! Remember, it's your job to get the news out on time!
- **Pinball Jam:** Coming soon! A variety of challenging pinball scenarios await!
- **Pit Fighter:** Using digitized graphics from the arcade classic, Pit Fighter brings fighting action to life!
- **QIX:** Faithful adaptation of the arcade strategy classic. It's your job to neutralize Qix and its offspring Spax!
- **RAI-DEN:** This arcade adaptation is a vertical scrolling shooter with the best arsenal of weapons anywhere! Coming soon!
- **Rampage:** Up to four monster-creature players can ravage the city or beat each other up! For pure primal violence, this game can't be beat!
- **RC Destruction Derby:** Coming soon! Race car competition at its most deadly and dangerous!
- **RoadBlasters:** Armed with everything from laser cannons to atomic missiles, you race to cross the finish line. Nothing stands in your way! NOT!
- **Robosquash:** Being a robot just means you play harder! Win planes and help cut off the Rebellion in their tracks!
- **Robotron 2084:** The year is 2084 and you've got to save the earth from human-looking Robotrons! Do androids dream of humans in their video games? Find out and see!
- **Rolling Thunder:** You are the number one secret agent in the world. You always get the bad guys and you always get your girl. But first, you're going to have to get her back from the bad guys! You'll stop at nothing to get past those robotic thugs!
- **Rygar:** It's your mission to purify over 23 levels of all evil. You're an ancient warrior who's been brought to life by the gods, but they brought you back for a reason! Good scrolling!
- **Scrapydog:** A man is a dog's best friend. Your dog Scraps is kidnapped and it's up to you to save him! Follow a mean gang through six multi-level worlds and get Scraps back!
- **Shadow of the Beast:** The ST roleplaying classic comes to the Lynx in a faithful adaptation! Coming soon!
- **Shanghai:** Stack ancient tiles in an obsessive pattern and puzzle game. Beat the crab, hawk, and the dragon!
- **S.T.U.N. Runner:** Put your driving skills against earth invaders in the 25th century in 3D tunnel! With 360 degree action! Never thought you could drive upside down? Now you can!
- **Slime World:** Todd's got some serious obstacles to avoid, including lots of ooze. Try to reach the exit on the far end of the planet!
- **Storm Over Dorla:** The Lynx's first role-playing game. Rescue Prince Creshin and the stolen crown of Versailles, so you can control the weather! Fight over 23 monsters and use multiple weapons! Talk to anyone moving, too!
- **Strider II:** New game! No description yet!
- **Super Asteroids/Missile Command:** Two classic games adapted for the Lynx in one fun cartridge! Excellent graphics!
- **Superskweek:** Paint tiles blue and rescue hostages. This French coin-op translation requires real arcade instincts!
- **Switchblade III:** Coming soon! Too new to know yet!
- **TAXI:** This game is too new to be sure if Danny DeVito or Judd Hirsch are involved. Coming very soon!
- **TOKI:** You are the good mutant Toki, and you've been turned into a monkey by an evil wizard! All the gorgeous graphics and sounds of the arcade hit!
- **Tournament Cyberball:** Real robotic gridiron action! Defuse the ball, though, before it blows you all away!
- **Turbo Sub:** Prototype sub-fies in the air and sails under the sea. And the 32-bit sound processor brings you right to the action!
- **Ultimate Chess Challenge:** Based on Fidelity's chess algorithms, you'll find that to be a tough and ready opponent!
- **Viking Child:** Help little Brian save his family from the evil Loki! It's his mission, and only you can help prevent forest fires.
- **Vindicators:** Ever wanted to take control of the most powerful supertank in the galaxy? From the Atari coin-op classic!
- **Warbirds:** A W.W. I flying ace game with dogfights and real polygon graphics. Great reviews!
- **World Class Soccer:** Real sports fun IN YOUR FACE! Only top-notch soccer players can win against the Lynx!
- **Xenophobe:** Kill or be killed. Exterminate the aliens infesting multi-layer star ships and planets!
- **Xybots:** Robot mayhem! You must clear the maze-filled spacestation of enemy robots before they get you!
- **Zarlor Mercenary:** Destroy the Medicant tyranny and loot and pillage their planet! You're the only winner!

Controllers

(410) 544-6943 Information

ATARI



\$41.00

ORIGINAL RODENT.

**ATARI STANDARD
JOYSTICK
Only \$7.95!**

Trackball Is Rosetta Stone!

Want to know how to say, "Amazing response for higher scores in fast-action game play," in eight languages? We've got a few of these beautious trackballs left, and this multi-lingual box is a great way to translate obscure phrases. Works as a replacement for a joystick. Does not behave like a mouse, but could be modified to. Works on eight bit or ST. Order toaday! Order your new Atari CX-80 Trackball. We're not getting any more!

• Atari Trackball \$9.95!

**WICO'S EXCELLENT
JOYSTICKS**

We here at Toad Computers believe that a computer accessory isn't really good unless you can beat it senseless and have it work when you're done. That's what's so great about the Wico Bat Handle and 3-Way sticks. They're built to withstand living hell. I've had a 3-way one since I was twelve. And we still use it in the store. They last.

- Wico 3-Way - Only \$25
- Wico Bat Handle - \$22
- Wico Ergostick - \$16

ADVANCED GRAVIS FRIENDLY JOYSTICK

Looking for a joystick you could call a "smooth operator?" That's the Gravis. It's contoured to your hand, with a supple leather covering. It has a tension adjustment and a large base for table use. Using this stick simply feels good. It feels like it should control a plane. You'll like it. Give it a try and let us know what you think!

• Gravis Joystick - \$36!

The Beetle Mouse

If you're tired of the same old library-paste colored mice and want something high-resolution (320 dpi), high-quality, lightweight, and downright colorful, the Beetle Mouse is the one for you. It uses great microswitches, so clicking is easy and quick. They're high resolution — so you don't have to spend a weekend moving your mouse pointer to the other side of the screen. And they come in a variety of fashionable and unfashionable colors. Here's the list: red buttons (no offense to Red Buttons) and black top (not pavement), red top and black buttons, white buttons and grey top, black buttons with blue top (my choice), blue buttons with canary yellow top, white buttons with white top (virgin mouse), yellow buttons with red top, grey buttons with white top, black buttons with yellow top, black buttons with black top (stealth mouse). Order your own toadally bitchin' mouse toaday!



• Cool Beetle Mouse Deal — Only \$39 Each!

ALFA-DATA Controllers

Looking for a cheaper mouse or trackball that's as good as the competition? That's what Alfa-Data is all about! Their opto-mechanical mouse is based on the same design as the original Golden Image opto-mechanical mouse. It's very solid, moves smoothly, and has easy to click buttons. In an attractive off-white, it matches the TT030's color. Their trackball, which is the same as the popular BEST Trackball (this means getting parts will be easy), is a great deal and is very solid. The advantage to this trackball is that it has a locking ring which can be removed for easy cleaning. They have another trackball which has three buttons. There's the left button, the right button, and then a third "hold" or "drag" button which simulates your holding down the left button. This is great for moving files around on the desktop, or for long distance moves of frames onscreen. Advantages to a trackball, in general, include requiring less desk space and less chance of getting carpal tunnel syndrome. Finally, Alfa Data makes an optical mouse, which works just the same as the Golden Image product (listed below). Check it out.

- | | |
|--------------------------------|-----------|
| • ALFA-DATA Optical Mouse | Only \$49 |
| • ALFA-DATA Optomech Mouse | Only \$36 |
| • ALFA-DATA Standard Trackball | Only \$52 |
| • ALFA-DATA Trackball w/Drag | Only \$69 |

GOLDEN IMAGE

Golden Image Technology is a manufacturer of high quality controllers and peripherals for Atari computers. One is their optical mouse. It works with a pad, marked with dots. The mouse sees how many dots it's passed over, and then reflects that movement on screen. This means there are no moving parts, which means less to break. They also make an optomechanical mouse, which works just the same as most other mice. The best way to describe this mouse is substantial. It's fairly heavy, but registers movements well. It has a resolution of 290 dpi. Both mice come with a one-year warranty and are really hot sellers.

- | | |
|------------------------------|------------|
| • Golden Image Optical Mouse | Only \$69! |
| • Optomechanical Mouse | Only \$45! |
| • Cordless Trackball | Only \$94! |
| • Hand Scanner & Touchup | Only \$199 |

KRAFT
SYSTEMS INC.

HIGH-QUALITY
Trackball

If pushing mice around isn't for you, try an upside down mouse — a trackball. Kraft's doesn't require fields to roam in. It sits right next to your computer and requires only the desk space of a postcard. Features a removable ball and three buttons: left and right, and drag. Very handy indeed. Definitely a favorite among men.

• Kraft's Cool Trackball

Only \$59!

We Have the FUNNEST Games!**• FLIGHT ACTION**

Battle Hawk 1942: WWII Pacific Battles. You'll enjoy it. \$24
F-15 Strike Eagle II: Command today's best planes in tough battles. Challenging. \$45
F-19 Stealth Fighter: Always wanted to try one? Now's your chance to get in the cockpit! \$45
Falcon Classic Collection: Falcon With Mission Disks 1 & 2; Modern F-16. A must-have in every flight simulator library! \$49
Their Finest Hour: WWII Battle of Britain. \$39
Thunder Hawk: Helicopter action like you've never seen it. \$42
A320 Airbus: 3 years in the making by Rainer Bopf, a high ranking pilot in the German Air Force. Has over 80 airport charts. Cool! \$47

Knights of the Sky: Fly 20 different WWI planes to determine who's the Ace of Aces. 13 different 3-D perspectives! \$45
Space Shuttle: You command Atlantis, Discovery, Endeavor, or Columbia. Not Challenger. \$39

Flight Simulator II: America's classic flying fun from Sub-Logic. San Francisco. \$35

Scenery Disks: Detroit, Europe, and Japan. Each. \$19

Blue Max: "Fighter pilot bomb people kinda game" NEW! Get it while it's hot. Call

Flight of the Intruder: Fly deep into enemy territory. Fat package. Real fun. \$39

• MILITARY STRATEGY

Battle Chess: Want to capture the king? Fight for it, baby. Brings chess to life. \$34

CheesMaster 2000: Highly rated computer chess program. Tough. \$32

Silent Service II: Microprose submarine simulation. Very popular. \$49

M1 Tank Platoon: Command the powerful M1. \$42

UMS II: Strategic map warfare comes to life. \$42

Air/Sea Supremacy: Great compilation pack! Includes Gunship, Silent Service, Carrier Command, P47 Thunderbolt & F-15 Strike Eagle. GREAT! \$49

Power Monger: Ray's favorite. Take over the world. \$45

Power Monger WWI Data Disk \$27

• PUZZLE GAMES

Tetris: Yeltsin's favorite puzzle game. Master it. \$29

Boston Bomb Club: Build a better mousetrap? \$39

Klax: Arrange the colored tiles before they arrange you. \$29

• GAMBLING

LottOdds: Randomly select and record your lottery picks for winning results. \$24

Blackjack Plus 3: Not only plays games but gives personal tips to improve your game. Basic version. \$39

Strip Poker: Need we say more? Probably not. \$29

Strip Poker Data Disks:

All Just \$15
Hoyle's Book of Games: Volume 1 (Fun Card Games) Special at Only \$19
Volume 2 (Solitaire Variations) Special at Only \$19

• CLASSIC ARCADE ACTION GAMES

Elvira (The Arcade Game): Use spells and weapons! \$39

Magic Pockets: Throw stuff out of your pockets! Actually a popular game! \$37

Rodland: Troubles in fairyland! \$35

Baby Jo: Arcade Action helping Baby Jo get back home again. \$34

Star Wars: Game box plays Star Wars theme! Specify ST or STE. Lots of fun! \$35

Super Space Invaders: Old idea, great graphics, new game. \$35

Oids: Space flight. \$29

Joust: Classic! Poke the birds and collect the eggs. \$19

Arkanoid: Even better than Breakout! Dave got addicted to this in '87. \$19

Turtles Coin Op or Turtles 2: NEW! \$37

Boulder Dash Construction Set: Dodge funky obstacles in the mines while you search for gems. Absolute classic! \$10

Terminator 2: With free T-shirt inside! From the movie. \$39

• ROLE PLAYING

Captive: Longtime favorite futuristic quest game. \$39

Corporation: 3-D adventure in the future. \$21

Dungeon Master: All-time classic medieval adventure. Get it now and again. \$24

DM Hint Book \$10

DM Hint Disk \$15

Chaos Strikes Back: DM sequel brings back all the action! \$24

Cartographer: Map Dungeon

Master levels and become a dungeon master. \$15

Nightmare: A new favorite out this year! \$42

Nightmare Hint Book: Full color map included. \$10

Legend: Stunning 3-D realism takes role-playing to new heights. Rich, complicated plot will make you sweat. \$44

Pirates: Plunder the Caribbean and have fun while you do it! \$39

Ultima V: The Ultimate. \$39

Ultima VI: (It's Really Coming! Soon!) Call

Shadowlands: (New!) \$44

Disciples of Steel: Like any of the above? You'll love this American made game! \$39

• ACTION ADVENTURE

Leander: Guy with a sword on top of a rock! **Psynopsis:** It's a great new game! \$34

Space Ace: Don Bluth's animation marvel. \$39

Space Ace 2 \$39

Space Rogue \$35

Gods: Compete in Greece. By the Bitmap Brothers. \$37

Oblitus: Forest adventure from Psynopsis! Great! \$37

Vengeance of Excalibur: Track and destroy the Shadow Master, through Britain & Spain through the 14th Century. \$37

Elvira II: Help save Elvira from the evil force that has captured her Black Widow Production company! \$42

Robocop 3: Only Robocop can defeat the "Rehabs" and save Detroit! Arcade action and movie sequences. \$39

Secret of Monkey Island: Before the much awaited sequel is released, get in on the original version that's so cool! \$39

Another World \$37

Hudson Hawk: Learn how to break into high security buildings! Very popular in Holland. \$37

Dinowars \$21

Dragon's Lair \$39

Dragon's Lair 2: The arcade classic comes home to your ST! \$31

Dragon's Lair 3: \$35

Curse of Azure Bonds: \$37

Realms: Love thy neighbor, or put him to the sword? \$44

Double Dragon III: \$37

Deuterons: Construct high-tech space shuttles to venture out into the war-torn solar system. \$44

Shadow of the Beast II: This ST classic is back! Call

Cruise for a Corpse: True Agatha Christie style whodunit. \$39

Deuterons: Construct high-tech

space shuttles to venture out into the war-torn solar system. \$44

Shadow of the Beast II: This ST classic is back! Call

Cruise for a Corpse: True Agatha Christie style whodunit. \$39

Christie style whodunit. \$39

Leisure Suit Larry \$24

Leisure Suit Larry 2 \$24

Leisure Suit Larry 3 \$39

Leisure Suit Triple Pack \$69

• LEMMINGS & OTHER TOP PICKS

Lemmings \$35

More Lemmings: Add-On \$28

More Lemmings: Stand Alone Ver. \$33

Railroad Tycoon \$46

Epic: Cool new futuristic 3D fight game. \$39

• GOVERNOR GAMES

Sim City/Populous: Great package with two great games for one price! Good value. \$39

Utopia: Create your own world today! In your image! \$39

Populous II-1mb Version!

Populous continues! \$45

Storm Master: Power and creation simulation! \$39

• SPORT VARIATIONS

Vroom: Madcap driving with smooth 3D action from the cockpit! \$39

MicroLeague Baseball 2: Great baseball action! \$39

Pit Fighter: Make your living by fighting thugs in pits. \$35

Test Drive II: This game has gotten even better. \$37

Full Count Baseball: Managerial baseball. \$29

Pro Tennis Tour \$29

Grand Prix: Stunning 3D formula one driving. \$41

LotusTurbo Challenge II:

Descended from the "best driving game 1990." \$39

Jack Nicklaus Golf: Lots of courses, good buy. \$39

• STOS SYSTEM

STOS: Make your own fun games on your ST. Not just a programming language! \$39

STOS 3D: Add stunning 3D graphics to your games & programs! \$42

STOS Compiler: Compile your games into stand-alone programs. \$29

STOS Maestro: Add music and sound to your games. Make 'em professional! \$39

STOS Maestro Plus: Digitize sounds and put them in your games! \$99

STOS Sprites: Colorful sprites for addition into your games! \$29

• COMPILATIONS

Rainbow Collection: Rainbow Island, Bubble Bobble, New Zealand Story. Hours of fun. \$34

Virtual Worlds: Driller, Total Eclipse, Castle Master, The Crypt. \$37

Big Box: Teen Queen, Captain Blood, Safari Guns, Bubble, Tin Tin Moon, Purple Saturn Day, BoBo, Jumpin' Jackson, Hostages, Krypton Egg. \$42

GREAT DEAL! \$42

Ninja Collection: Double Dragon, Shadow Warriors, Dragon Ninja. \$35

10 Great Games: Ferrari One, Rick Dangerous, Pro Tour Tennis, Super Ski, Chicago 90, Carrier Command, Xenon 2, Pick n' Pile, Night Hunter. About \$5 per game! Only \$49

Grand Stand: Gazzza Supersoccer, Pro Tour Tennis, World Class Leaderboard, Continental Circus. \$42

Four Wheel Drive: Lotus Esprit, Toyota Celica, Team Suzuki, Combo Racer. Drive all the way to the bank! \$42

Award Winners: Space Ace, Kick-Off 2, Populus, Pipe Mania. \$40

James Bond Collection: Spy Who Loved Me, Live and Let Live, License to Kill. Only \$37

Virtual Reality: Star Glider 2, Carrier Command, Midwinter, International Soccer, Stunt Car Racer. \$34

• CLEARANCE!

Want to have some fun without having to sell the farm? Try some of our great

CLEARANCE! games. They're all pretty good and they're at prices that'll make your jaw drop.

Microprose Golf: "So true to life it will actually improve your own golf game!" \$49

Zany Golf: Zany miniature golf will drive you batty! \$19

Big Run: \$37

Street Hockey: Fully endorsed by the British street hockey assoc! \$29

Jimmy White Whirlwind

Snooker: The best billiards you can get on the ST. \$42

Basketball: The Pro Game Real basketball on ST! \$29

W.W.F. Wrestlemania: You know what this is. \$39

Do call if you wish for more complete descriptions. These will be provided on our tech line, (410) 544-6943, if you need additional information on a game.

• WEIRD STUFF

Monty Python's Flying Circus:

Weird Fun. \$29

James Pond: Fish adventures with Dr. Maybe. \$22

Robocod: James Pond II. The adventures get weirder. Call

Life and Death: Ops, I dropped your brain! Best surgery simulation. \$39

Leisure Suit Larry \$24

Leisure Suit Larry 2 \$24

Leisure Suit Larry 3 \$39

Leisure Suit Triple Pack \$69

• BOARD GAMES

Scrabble \$29

Trivial Pursuit \$29

Risk \$29

Monopoly \$34

Clue \$29

Stratego \$40

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Game Magazines,

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Animation & Graphics

(410) 544-1FAX Fax Us Pictures

Lexicor Graphics Power!

Lexicor Software came onto the Atari scene a couple of years ago with a promise to continue the Atari "great graphics" tradition into the 1990's. And that they have done.

Their "Phase-4" series of software contains four powerful graphics programs, which do everything from computer-aided painting to complete 3D modeling and surface rendering.

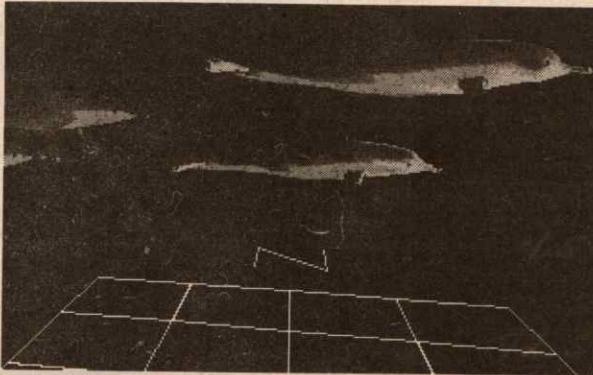
"Prism Paint," their bitmapped, color or monochrome, **resolution independent** paint program will read and write several popular picture formats, including Neochrome, Degas, Degas Elite, GIF, and IFF. Prism Paint will run on any ST or TT computer in any resolution. Like all of the "Phase 4" products, Prism Paint supports alternate video cards and drivers. Prism Paint allows the fast replay of stored frames, for animation.

"Chronos 3D" is a complete 3D design studio. Three dimensional objects can be placed,

lit, and "photographed" to your specifications. Link a series of "pictures" together, each one slightly different, and you've got a complete animation!

can be applied to any part of a three dimensional structure.

"Rosetta 3D" is a powerful utility to convert 3D object files between popular formats. Objects from CAD-3D, Autocad, Dynacad, and other 3D design programs can now be used with the "Phase 4" family of programs. Connects your above-average Atari animation system to the rest of the world's status quo.



Unretouched Dolphins from the "Phase-4" System. Originally a Luscious Yellow.

"Prism Render," allows you to take 3D objects you've created and apply a variety of "surfaces" to their inner or outer frames. Woodgrain, metallic, smooth or rough surfaces

"Prism Tablet," the fifth phase, is a helpful hardware input device. With a driver that makes it behave like a mouse, the Prism Tablet is a high resolution graphics tablet. Its pen-like stylus will allow you to trace or draw printed graphics into the Phase-4 programs. A mouse would never let you be this accurate!

The Lexicor Phase-4 system may very well be your next purchase; give it some thought. Its modular nature means you can buy as you learn, but start learning **today!**

Get Lexicor Power!

- **Prism Paint** \$59!
Full color paint program works on any ST or TT in any resolution. Comes with examples of graphics and animations.
 - **Rosetta 3D** \$89!
Convert between popular 3D CAD and graphics formats.
 - **Chronos 3D** \$229!
A complete 3D graphics film studio.
Move your lights and cameras as you wish around stationery or moving objects.
 - **Prism Render** \$79!
Want to make a human head look like it's made out of wood? It's no problem with Prism Render. PIXAR compatible.
 - **Prism Tablet** \$159!
If your mouse or trackball is just not accurate enough for you, or if you want to trace existing printed graphics, the Prism Tablet is what you need.

Want to try before you buy? Stop by our store for a demo of this great software system. Also, if you own a SyQuest removable drive (like the **Toadfile 44**) you can send a blank cartridge to Lexicor (see ad next page for address) for a free copy of demo versions of the Phase-4 programs as well as lots of graphics files. *We know that you'll be astonished by the quality of these graphic examples of the ST/TT's superior graphics ability.*

GRAPHICS CLASSICS!

- MVG: Multiviewer Graphica**, will display many different graphics file types including Degas, Neochrome, MacPaint, Tiny and more. Also converts between many different color and monochrome formats! *Very popular.* **Only \$39!**

• **NEOCHROME**, Atari's classic graphics software is a fun, easy to use paint program. Runs in ST low resolution - 16 colors. Make circles, rectangles, lines, and animate through color palette shifting. One of the most popular ST paint programs ever. **Only \$35!**

• **DEGAS ELITE**, another ST favorite, includes the ability to work on up to eight pictures (with one meg or more) at once by using available memory as graphics buffers. Reads and writes Neochrome files. Also does color palette shifting animation. **Only \$49!**

• **DELUXE PAINT II**, from Electronic Arts, will do cell animation, and reads and writes Neochrome and Degas files. Very popular and easy to use. **Only \$89!**

• **MUGSHOT** is a heck of a lot of fun. Create "mugshots" of any suspect you imagine. Lots of facial choices. **Only \$29!**

CAD/CAE STUFF!

• **EASY DRAW**, Migraph's object oriented drawing program is comparable to MacDraw and other drawing programs. High resolution output. Supercharged Version 2.3. **Only \$64!**

• **GFA DRAFT PLUS** is a decent, low cost CAD program. Allows use of layers. Easy to use. **Only \$159!**

• **DYNACADD**, from ISD Marketing, is the premier 2D and 3D CAD program for the ST. Very powerful. Comparable to Autocad, but at less than half of the price. **Only \$629!**

CAD/CAE STUFF!

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DISCOVER THE 4TH DIMENSION

Explore computer imaging and animation in time and space.

PRISM-PAINT

(Photo realistic Render
in Advanced 6)



*All Artwork Created
with Prism-Paint*

PRISM-PAINT 1.0 is a powerful drawing program that runs in all ATARI resolutions plus 1024x768 4096 color mode and 24 bit true color with 16 million on-screen colors and is fully TT-32 bit tested and 68030 compatible. Not only will you find many of the features expected in a drawing program (such as boxes, circles, ellipses, area fills, cut, copy and paste, (with fine pixel editing), but also explores some rather unique areas of its own! One of the more interesting areas of **PRISM-PAINT** is that it uses **PRISM-TABLET** (Graphics Tablet Environment) which supports the new Cal-Comp graphics tablet in four resolutions. Another feature of **PRISM-PAINT** is that it uses all of the computer's memory to support multiple picture buffers. This can range from approximately eight buffers on a 520ST to over 110 buffers on the MEGA4 ST, which allows the creation of animations using the built-in slide-show features. When used in combination with other PHASE-4™ programs **PRISM-PAINT** takes full advantage of ADEPT* and the Image Systems ISAC High-Res color board.

COMPLETE HIGH RESOLUTION ARTIST PACKAGE: This package is intended to upgrade any MEGA ST computer to full color graphics workstation status. ARTIST PACKAGE Release 1.0 features 4096 color palette support with 24 bit 16 million colors available in the professional package. When used with Syquest 44 HD system, the artist can create real time animations up to 55 minutes long in all supported color platforms with full 64 channel midi movie sound track support.

Finding Toad Computers

(410) 544-6943 Directions

TOAD COMPUTERS MOVES

Taking Advantage of Economic Weather — Growing Five Times Larger!

SEVERNA PARK (AP) — Toad Computers Director of Propaganda, David C. Troy, today announced that Toad Computers will be moving its headquarters approximately 600 feet. "We will be moving from the smaller shopping center to the larger shopping center," Troy said at a heavily attended press conference.

Troy says that several factors sparked the move, chief among them, the need for more space. The new Toad plant will be approximately five times larger than their present location.

Industry analysts have had little time to respond to today's news. Emmett T. Frogbrain, head analyst at Paine, Payne, Bend & Crack, an

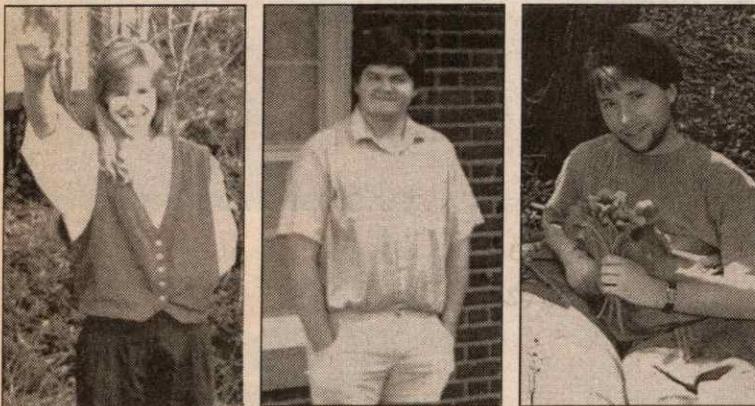
Annapolis economic thinktank, says that the western side of Baltimore Annapolis Boulevard could suffer heavy economic hardship from the loss of the Toad Computers facility. Sandwich shops, restaurants, and a convenience store could all suffer heavily, Frogbrain said, as all generate revenue from purchases made by Toad Computers personnel.

A spokesperson for the eastern side of the Boulevard is anticipating an economic thunderstorm to take place when Toad Computers becomes fully installed in their new facility. "It's only a matter of time; sooner or later those kids' good fortune will have to rub

off on the rest of us!"

Troy said that Toad Computers should be fully operational in the new facility sometime in Summer '92. With a retail space of approximately 2,000 square feet, and offices and storage at 3,000 square feet, Toad Computers will be the largest Atari dealer in the United States. "It'll be like an AtariFest every day," Troy said, expecting long distance visits from curious customers.

Toad Computers was started in 1986, moved into its present location in 1988, and is now moving across the street.



— Jennifer — — Ray — — David —

How to Visit Toad Computers

Visiting our beautiful post-modern art-deco neo-classical storefront facility is easy if you just have some good directions! We're centrally located between Baltimore, Washington, and Annapolis, and we're also just about halfway between San Francisco and London!

From Washington: Take US 50 (New York Avenue) East to Annapolis. Get onto Maryland 2 North immediately after crossing the Severn River bridge. Then follow directions from Annapolis.

From Baltimore: Take I-695 South, the Baltimore Beltway. Take Maryland 10 South to Severna Park. After a few miles, take Maryland 2

South towards Annapolis. Go about four miles. Turn right on Maryland 648, Baltimore Annapolis Boulevard. Go 1/4 mile and we'll be on your right.

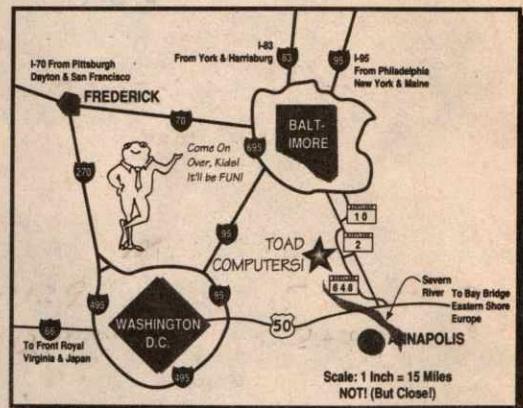
From Annapolis: Take Maryland 2 North on North side of Severn River Bridge. After a few miles, turn left at traffic light at McKinsey Road. Go to the first light. Turn right. We'll be about 200 feet on your left.

From Frederick: Take I-70 to I-695. Follow directions from Baltimore. Trust us, this is fastest.

Warning: Under no circumstances should you follow Baltimore Annapolis Boulevard, Maryland

648, further north than Severna Park. You will get lost. Originally, Baltimore Annapolis Boulevard was the only road from Annapolis to Baltimore, and it meandered. When Route 2 (Ritchie Highway) replaced it, it cut B&A into a zillion pieces. You'd never make it alive.

Moving: We are moving across the street. If, when you come, we're not in our old location, we've moved.



Instructive Map to Toad Computers

Our Friendly Store Hours

Monday Through Friday: 10:30am – 7:00pm
Saturday: 10:30am – 6:00pm

Toad Computers • 556 Baltimore Annapolis Blvd. • Severna Park, MD 21146-3818 • Visit Toaday!

(800) 448-TOAD!

8 4 2 3

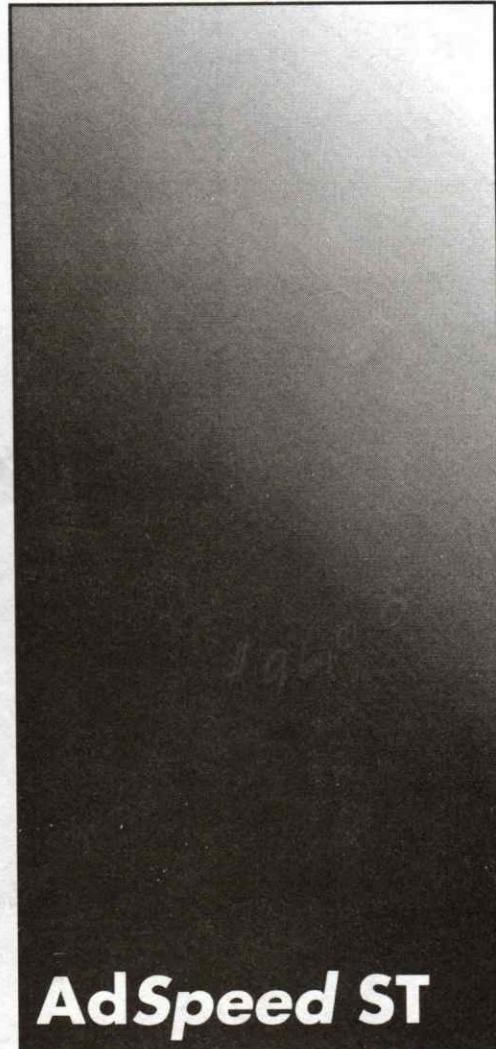
AdSpeed™ ST

ICD reaffirms its position as the leading developer of third party hardware for the Atari® ST with the **AdSpeed ST**, a full featured low-cost 16 megahertz 68000 accelerator for all Atari St, Mega, and Stacy computers. With **AdSpeed ST** almost every operation of your computer will be performed faster.

AdSpeed ST continues ICD's tradition of providing the best product available. These are some of the features that set it apart from the competition:

- Works with all ST models, from the 520 ST to the Mega 4 and Stacy.
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- No jumper wires.
- Low power, high speed CMOS 68000 CPU for full 100% instruction set compatibility.
- Software selectable speeds, with a true 8 MHz mode for 100% compatibility. Switches speeds on the fly without rebooting the computer!
- 32 kilobytes of high speed static RAM for 16K of data/instruction cache and 16K of cache tag memory.
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- State of the art multilayer, surface mount design makes **AdSpeed ST** the smallest accelerator available anywhere.
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AdSpeed ST is the most effective way to increase the overall speed of your Atari computer. You'll be amazed at the increase in your computer's performance and your productivity.



AdSpeed ST

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Be sure to VOTE in '92!



1992

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